Limited Phase II Services
Proposed Burlington MGP Retail
Burlington, North Carolina
S&ME Project No. 4335-15-076

Prepared for:
Lidl US, LLC
1500 Sunday Drive, Ste. 101
Raleigh, NC 27607

Prepared by:
S&ME, Inc.
8646 W Market St, Ste 105
Greensboro, NC 27409

October 1, 2015

October 1, 2015

Lidl US, LLC
1500 Sunday Drive, Ste. 101
Raleigh, NC 27607

Attention: Mr. Ryan Berger

Reference: **Limited Phase II Services**
Proposed Burlington MGP Retail
Burlington, North Carolina
S&ME Project No. 4335-15-076

Dear Mr. Berger:

S&ME, Inc. (S&ME) submits this Limited Phase II Services Report for the above referenced project. This report describes the scope of services for the project, laboratory results, findings and conclusions. These services were performed in accordance with S&ME Proposal No. 43-1500428, dated April 24, 2015.

Sincerely,

S&ME, Inc.

Darren Cox
Staff Scientist

Wayne Watterson, P.E.
Senior Engineer

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1.0 BACKGROUND

S&ME previously completed a review of environmental reports related to the site provided by Bohler Engineering. These services were completed in accordance with S&ME proposal 43-1500263, and included a brief review of the Phase I ESA, Geophysical Survey and Limited Soil and Groundwater Assessment Reports (LSGAR), each completed by Progress Environmental. Our review (documented in a letter issued to Bohler Engineering dated April 6, 2015) generated the following comments and indicated that further investigation was necessary based on the conclusions presented by Progress Environmental Inc.

1. One unknown anomaly was reported during the Geophysical Survey in the northeastern portion of the property. The report recommends "additional evaluations be conducted at the unknown buried feature on the northeast portion of the property."
2. The above anomaly identified in the northeast portion of the site was not marked on any of the figures included in the LSGAR. Therefore, it is not evident whether the sample locations documented in the report adequately assess the anomaly.
3. The LSGAR identifies petroleum impacted soil (sample TW8-5) in the southwest portion of the parent parcel at concentrations above North Carolina Department of Environment and Natural Resources (NCDENR) Action Levels. The source of the contamination is not defined. We recommend additional assessment to determine the source of the petroleum impacts
4. Total chromium was reported in eight (8) soil samples collected at the site. The sample data did not differentiate between trivalent (III) chromium and hexavalent (VI) chromium. Each of the reported total chromium concentrations was greater than the NCDENR hexavalent chromium preliminary soil remediation goals (PSRGs); therefore, the potential exists for soil at the property to be impacted by hexavalent chromium at concentrations above PSRGs.
5. The LSGAR documented petroleum impacts in the groundwater at the subject property at concentrations above North Carolina groundwater quality standards (2L Standards), and concluded the likely source of the petroleum impacts is from off-site.
6. The LSGAR documents the presence of total cadmium, total chromium, and total lead in the site groundwater at concentrations greater than 2L Standards. The report concludes these metals concentrations may be attributed to "the turbidity of the groundwater samples." In our opinion, the existing data set is not adequate to determine whether the reported, elevated metals concentrations were caused by turbidity in the samples.

On April 14, 2015, Bohler Engineering requested a scope for a new Phase I ESA and additional assessment to further evaluate conditions documented in the Progress Environmental Inc. reports.

2.0 SCOPE OF SERVICES

The activities for this Limited Phase II included: 1) the installation and sampling of four (4) shallow, temporary groundwater monitoring wells; 2) the approximation of groundwater flow direction by obtaining a relative top-of-casing elevation for each of the four groundwater monitoring wells and measuring the depth to groundwater at each temporary monitoring well; 3) the abandonment of the temporary monitoring wells; 4) collection of five (5) soil boring samples advanced to 5 feet below ground

surface (three samples from the railroad spur area and two from eastern property line); and 5) excavation of two test pits to investigate two subsurface anomalies detected during previous investigation.

2.1 Health and Safety Plan

S&ME prepared a site-specific Health and Safety Plan (HASP) in general accordance with 29 CFR 1910.120, which addressed the contaminants known or suspected to be present on-site, personal protective equipment, and monitoring performed during the field activities, and response actions to be taken in the event monitoring thresholds are exceeded.

2.2 Underground Line Location

In accordance with North Carolina Law, S&ME provided notification to NC One Call 72-hours prior to drilling. In addition, S&ME subcontracted a private utility locating company to mark the location of underground utilities, if any, at the proposed drilling locations.

2.3 Installation of Temporary Monitoring Wells

On September 9, 2015, S&ME observed the installation of four (4) temporary groundwater monitoring wells on the subject property (labeled as TMW-1, TMW-2, TMW-3, TMW-4) at the locations shown on Figure 2. Each temporary well was installed using a track-mounted hydraulic direct push drill rig (Geoprobe® 5410). Soil samples were collected from the cuttings at 4-foot intervals and screened for volatile organic compounds using a photoionization detector (PID). The PID results did not indicate the presence of volatile organic vapors in the screened soil. No soil samples were submitted for laboratory analysis.

Temporary well construction information is included in Table 1. Well Construction Records for the temporary monitoring wells are provided in Appendix I.

Following well installation, each monitoring well was developed via removal of fluids and sediments using peristaltic pump.

2.4 Sampling of Temporary Monitoring Wells

On September 11, 2015, S&ME collected groundwater samples from the temporary monitor wells (TMW-1, TMW-2, TMW-3 and TMW-4). Prior to sampling, each temporary monitoring well was purged of approximately three well volumes using a peristaltic pump. After purging three volumes of the wells storage capacity groundwater samples were collected. The groundwater samples were submitted for laboratory analysis at Pace Analytical Services, Inc. of Huntersville, North Carolina, a North Carolina-certified laboratory, for volatile organic compounds (VOCs) by EPA Method 8260B and for Priority Pollutant Metals (arsenic, beryllium, cadmium, chromium, copper, mercury, nickel, lead, antimony, silver, selenium, thallium, and zinc).

2.5 Soil Sampling

On September 9, 2015, S&ME collected five (5) soil samples on the subject property (labeled as SB-1, SB-2, SB-3, BG-1 and BG-2) at the locations shown on Figure 2. Soil samples SB-1, SB-2 and SB-3 were collected near the rail line. Samples BG-1 and BG-2 were collected at the east end of the property and

represent background soil conditions. Each sample was collected using a track-mounted hydraulic direct push drill rig (Geoprobe® 5410). Soil samples were collected from the sleeves and screened for volatile organic compounds using a photoionization detector (PID). The PID results did not indicate the presence of volatile organic vapors in the screened soil. Composite soil samples were submitted for laboratory analysis for Priority Metals and hexavalent chromium.

2.6 Investigation Derived Waste (IDW) Management

During the course of the field activities IDW were generated. Soil and water (decontamination fluids and well purge water) IDW were placed on the ground surface. Other IDW (sampling supplies, PPE) were placed in a trash bag and disposed as municipal waste.

2.7 Monitor Well Abandonment

Temporary monitor wells TMW-1, TMW-2, TMW-3 and TMW-4 were abandoned on September 25, 2015 following sampling activities. The temporary monitor wells were abandoned by removing the PVC from the ground and backfilling the borehole with bentonite pellets to 2 feet below ground surface and then concrete to the surface.

3.0 SITE SPECIFIC HYDROGEOLOGIC AND SOIL CONDITIONS

On September 11, 2015, S&ME personnel measured the depth to groundwater at each of the four temporary wells. The depth to groundwater ranged from 13.74 feet below top of casing in TW-1 to 18.62 feet below top of casing in TW-2. S&ME measured the relative top of casing elevations for each temporary well. Based upon the groundwater elevations, it appears that groundwater at the site flows to the north-northwest (Figure 3).

Soils encountered at the locations of the temporary monitoring wells generally consisted of tan clayey sandy transitioning to tan and whitish silty sand with depth

4.0 LABORATORY RESULTS

4.1 Soil Analytical

The analytical results for the five soil samples are summarized in Table 2, and a copy of the laboratory report and chain-of-custody form for the submitted samples is included in Appendix II.

As shown, arsenic, antimony and selenium were reported in samples at concentrations greater than North Carolina Department of Environmental Quality Inactive Hazardous Sites Branch (IHSB) Preliminary Soil Remediation Goals (SRGs). These constituents were reported in samples collected near the rail line and in one or more of the background soil samples.

5.0 GROUNDWATER ANALYTICAL

The analytical results for the four groundwater samples are summarized in Table 3, and a copy of the laboratory report and chain-of-custody form for the submitted samples is included in Appendix II. The laboratory report indicated that VOCs were detected above the method detection limits only in the sample collected from TMW-2 (see Figure 2). Benzene was reported in sample TMW-2 at 183 micrograms per liter (ug/L), which is greater than the North Carolina 2L Groundwater Quality Standard (2L Standard) for benzene at 1 ug/L. 1,2-Dichloroethane was also reported in sample TMW-2 at 4.8 ug/L, which is above the 2L Standard of 0.4 ug/L. Several target metals were detected in samples collected from TMW-1, TMW-2 and TMW-4, but all at concentrations below 2L Standards.

S&ME also compared the reported benzene and 1,2-Dichloroethane concentrations to the North Carolina Department of Environmental Quality (NCDEQ) Inactive Hazardous Sites Branch (IHSB) Non-Residential Vapor Intrusion Screening Levels (June 2014). The reported 1,2-Dichloroethane concentration of are less than the Non-Residential Ground Water Screening Levels; however, the benzene concentration is greater than screening levels, which indicates the potential for vapor intrusion into future on-site buildings from the detected compounds at the reported concentrations is possible.

5.1 Test Pit Investigation

On September 11, 2015, S&ME observed the excavation of test pits to explore potential subsurface anomalies detected during previous additional assessment activities. GPS coordinates of the two subsurface anomalies were used to coordinate excavation activities. A 10' x 6' x 6' excavation was performed at each location. No buried debris was observed in the test pits. Hazardous materials or staining was not observed in the excavation.

6.0 CONCLUSIONS

S&ME did not identify hazardous materials in the two test pits associated with the anomalies on the northeast portion of the subject property during the excavation on September 11, 2015.

Soil samples were collected in the area surrounding the rail line for Priority Pollutant Metals and hexavalent chromium. Hexavalent chromium was not detected in the samples. Arsenic, antimony and selenium were reported in samples collected from along the rail line and from the background samples. Because these compounds were detected in one or both background samples at concentrations similar to those reported in the samples collected along the rail line, the reported concentration appear to represent naturally-occurring metals concentrations.

Temporary monitor wells were installed on the property and groundwater samples were collected and analyzed for petroleum compounds and primary metals. Benzene and 1,2-Dichloroethane were detected as concentrations greater than 2L Standard in TMW-2, the well located in the southwestern corner of the property. No VOCs were reported in temporary monitor well TMW-3, located east and equi-gradient to monitor well TMW-2. The absence of target compounds in TMW-3 and the calculated groundwater flow direction (toward the northwest) suggests the reported benzene and 1,2-dichloroethane concentrations in TMW-2 is limited to the western portion of the site. The source of the benzene and 1,2-dichloroethane is not defined.

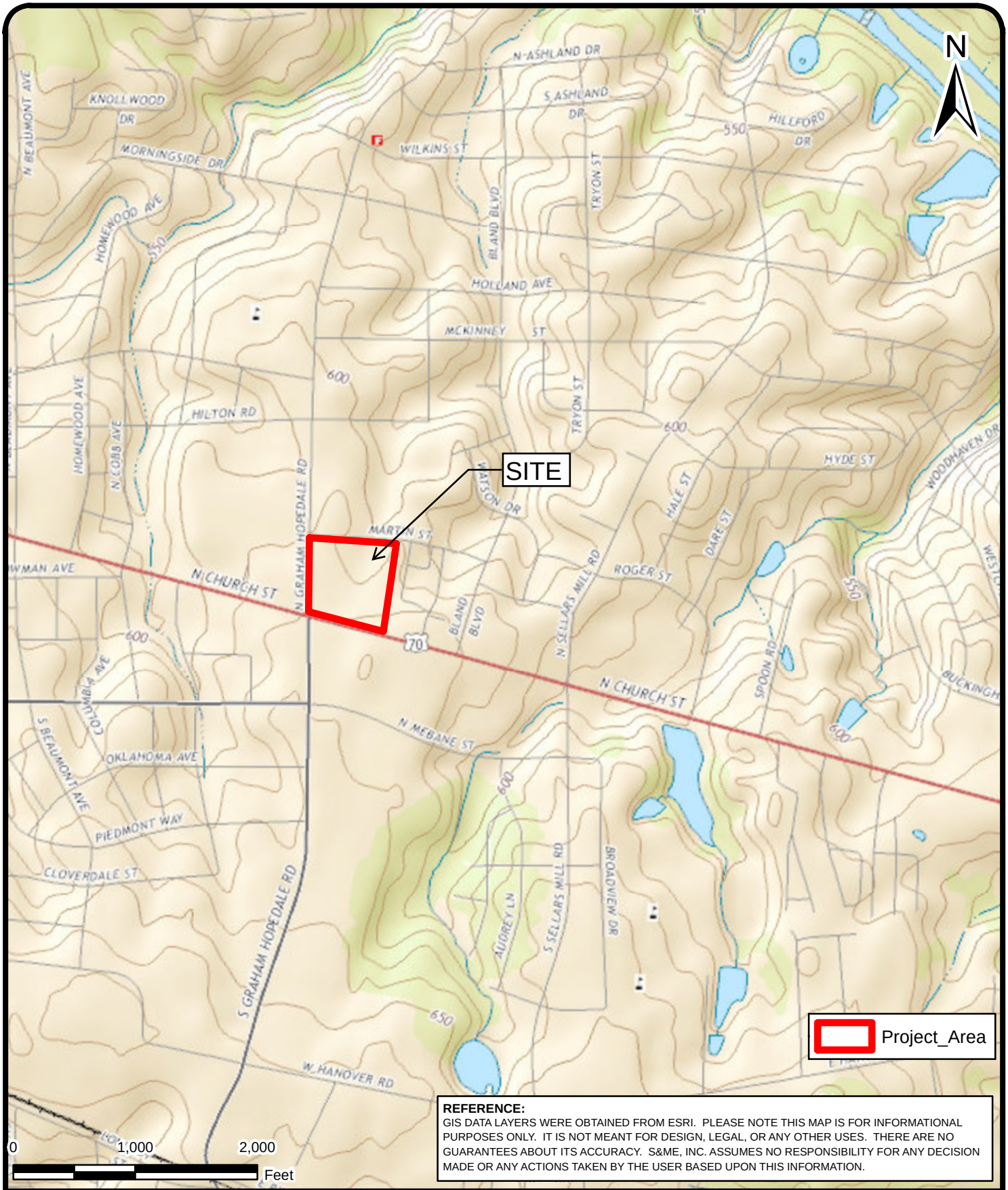
Because benzene and 1,2-dichloroethane was reported in sample TMW-2 at concentrations greater than the 2L Standard, we recommend a copy of this report be provided to the property owner for reporting to NCDEQ.

7.0 USE OF REPORT

All materials and information used for this project were obtained by S&ME. The resulting report is limited to the above referenced project and client as well as Bohler Engineering and Lidl US, LLC.

8.0 LIMITATIONS

The laboratory results of the soil and groundwater samples are representative of the site conditions at a specific moment in time and space and may not be reflective of conditions in other areas of the site or at different periods of time.



REFERENCE:
GIS DATA LAYERS WERE OBTAINED FROM ESRI. PLEASE NOTE THIS MAP IS FOR INFORMATIONAL PURPOSES ONLY. IT IS NOT MEANT FOR DESIGN, LEGAL, OR ANY OTHER USES. THERE ARE NO GUARANTEES ABOUT ITS ACCURACY. S&ME, INC. ASSUMES NO RESPONSIBILITY FOR ANY DECISION MADE OR ANY ACTIONS TAKEN BY THE USER BASED UPON THIS INFORMATION.

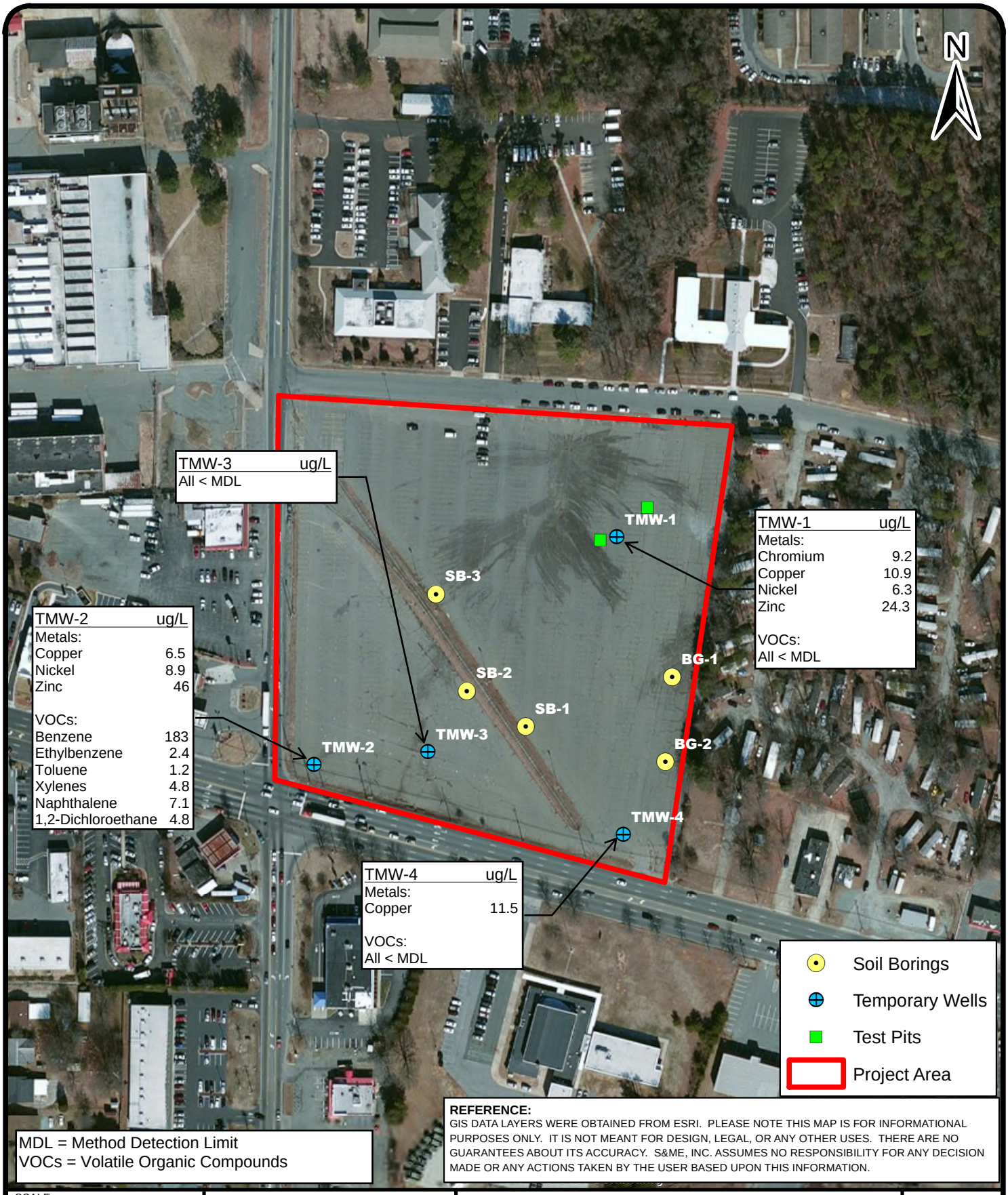
SCALE:	1 " = 1,066 '
DATE:	09-21-15
DRAWN BY:	DEC
PROJECT NO:	4335-15-076

S&ME
WWW.SMEINC.COM
ENGINEERING LICENSE NO: F-0176

VICINITY MAP

BURLINGTON MGP RETAIL
N. CHURCH STREET AND N. GRAHAM HOPEDALE ROAD
BURLINGTON, NORTH CAROLINA

FIGURE NO.
1



MDL = Method Detection Limit
VOCs = Volatile Organic Compounds

REFERENCE:
GIS DATA LAYERS WERE OBTAINED FROM ESRI. PLEASE NOTE THIS MAP IS FOR INFORMATIONAL PURPOSES ONLY. IT IS NOT MEANT FOR DESIGN, LEGAL, OR ANY OTHER USES. THERE ARE NO GUARANTEES ABOUT ITS ACCURACY. S&ME, INC. ASSUMES NO RESPONSIBILITY FOR ANY DECISION MADE OR ANY ACTIONS TAKEN BY THE USER BASED UPON THIS INFORMATION.

SCALE:	1 " = 204 '
DATE:	9/11/2015
DRAWN BY:	DEC
PROJECT NO:	4335-15-076

S&ME
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ENGINEERING LICENSE NO: F-0176

BURLINGTON MGP RETAIL SITE MAP

N. CHURCH STREET & N. GRAHAM HOPEDALE ROAD
BURLINGTON, NORTH CAROLINA

FIGURE NO.
2

C:\Users\dcox\Desktop\New folder\Site Map.mxd

LEGEND

- GROUNDWATER CONTOUR
- GROUNDWATER FLOW DIRECTION
(82.06) - MEASURED GROUNDWATER ELEVATION

SOURCE: 2014 AERIAL PHOTOGRAPH OBTAINED FROM http://www.nconemap.com
2014 PARCEL DATA OBTAINED FROM ALAMANCE COUNTY GIS WEBSITE

GRAPHIC SCALE

120 60 0 120

SCALE: 1" = 120'

SCALE:	AS SHOWN
DATE:	SEPT. 2015
DRAWN BY:	RDM
PROJECT NO:	4335-15-076

S&ME

GROUNDWATER FLOW MAP

BURLINGTON MGP RETAIL SITE
N. CHURCH ST. & GRAHAM-HOPEDALE RD
BURLINGTON, NORTH CAROLINA

FIGURE NO.

3

Drawing Path: Q:\4335\2015\15-076 - BURLINGTON MGP RETAIL SITE\Burlington MGP Retail Site Figures.dwg

TABLE 1
Well Construction and Groundwater Elevation Data
Burlington MGP Retail
Burlington, North Carolina
S&ME Project No. 4335-15-076

Well ID	Date Installed	Date Water Level Measured	Screened Interval (ft. BGS)	Bottom of Well (ft. BGS)	Depth to Groundwater (ft below TOC)	TOC Elevation* (ft.)	Relative Groundwater Elevation (ft)
TMW-1	9/9/2015	9/11/2015	14 - 25	24	13.74	85.96	72.22
TMW-2	9/9/2015	9/11/2015	15 - 25	25	18.62	95.35	76.73
TMW-3	9/9/2015	9/11/2015	14 - 25	24	14.67	92.26	77.59
TMW-4	9/9/2015	9/11/2015	14 - 25	24	17.27	99.33	82.06

* Reference Point for Elevation Measurements: Railroad spur, Assumed Elevation: 100.00 ft.
ft BGS - feet below ground surface
TOC- Top of Casing

Table 2

Summary of Soil Analytical Results

Burlington MGP Retail

Report of Limited Soil and Groundwater Assessment

Analytical Method			Priority Pollutant Metals												
Sample ID	Contaminant of Concern		Total Silver	Total Arsenic	Total Beryllium	Total Cadmium	Total Chromium	Total Copper	Total Mercury	Total Nickel	Total Lead	Total Antimony	Total Selenium	Total Thallium	Total Zinc	Hexavalent Chromium
	Date Collected (m/dd/yy)	Approximate Sample Depth (feet BGS)													
SB-1	9/9/2015	1-5	ND	ND	**0.12**	**0.12**	**11.9**	**21.8**	**0.019**	**3.4**	**7.50**	ND	**2.4**	ND	**13.8**	ND
SB-2	9/9/2015	1-5	ND	ND	**0.96**	**0.20**	**10.3**	**31.9**	**0.0081**	**8.4**	**4.60**	**0.95**	**4.7**	ND	**30.1**	ND
SB-3	9/9/2015	1-5	ND	**0.72**	**0.24**	**0.075**	**16.0**	**18.9**	**0.060**	**2.2**	**10.7**	ND	**1.6**	ND	**12.5**	ND
BG-1	9/9/2015	1-5	ND	ND	**0.30**	**0.14**	**9.30**	**10.6**	**0.014**	**2.1**	**5.40**	ND	**2.9**	BQL	**5.70**	ND
BG-2	9/9/2015	1-5	ND	**1.4**	**0.25**	**0.16**	**13.9**	**61.4**	**0.060**	**0.97**	**6.20**	**0.70**	**4.0**	ND	**6.00**	ND
IHSB SRGs Residentail Health Based (mg/kg)			78	0.67	32	14	24,000/0.29*	620	4.6	300	400	6.2	78	0.16	4,600	0.30
IHSB SRGs Industrial Health Based (mg/kg)			1,200	3.0	460	200	100,000/5.6*	9,400	70	4,400	800	94	1,200	2.4	70,000	6.3
IHSB SRGs Protection of Groundwater (mg/kg)			3.4	5.8	63	3.0	360,000/3.8*	700	1.0	130	270	0.90	2.1	0.28	1,200	3.8

NOTES:

Concentrations in mg/kg

Shaded = Concentration exceeds one IHSB SRG

BQL = Below Quantitation Limits

IHSB SRGs = Inactive Hazardous Sites Branch Soil Remediation Goals dated March 2015

* = Chromium III Standard/Chromium VI Standard

BGS = below ground surface

mg/kg =milligrams per kilogram

ND = Not Detected

Table 3
Summary of Groundwater Analytical Results
Burlington MGP Retail
S&ME Project No. 4335-15-076

Sample ID	**Constituent of Concern**	Benzene	Ethylbenzene	Toluene	Xylenes (total)	Naphthalene	1,2-Dichloroethane	Total Chromium	Total Copper	Total Nickel	Total Selenium	Total Zinc
	Date Collected	ug/L	ug/l	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
TMW-1	9/11/2015	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	**9.2**	**10.9**	**6.3**	<10.0	**24.3**
TMW-2	9/11/2015	**183**	**2.4**	**1.2**	**4.8**	**7.1**	**4.8**	<5.0	**6.5**	**8.9**	<10.0	**46**
TMW-3	9/11/2015	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<5.0	<5.0	<5.0	<10.0	<10.0
TMW-4	9/11/2015	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<5.0	**11.5**	<5.0	<10.0	<10.0
2L Standards (ug/L)		1	600	600	500	20	0.4	10	1,000	100	20	1,000

NOTES:
ug/L = micrograms per liter
2L Standards (ug/L) - 15A NCAC 2L groundwater quality standards, 4/1/2013
Bold data above reporting limit
Shaded data above the 2L Class GA Standard
Only compounds reported in samples during September 2015 sampling event are shown.

Appendices

Appendix I – Well Construction Records

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

For Internal Use ONLY:

1. Well Contractor Information:

Lawrence D. Opper

Well Contractor Name

NC3322-A

NC Well Contractor Certification Number

Regional Probing Services

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

☐Agricultural ☐Municipal/Public

☐Geothermal (Heating/Cooling Supply) ☐Residential Water Supply (single)

☐Industrial/Commercial ☐Residential Water Supply (shared)

☐Irrigation

Non-Water Supply Well:

☑Monitoring ☐Recovery

Injection Well:

☐Aquifer Recharge ☐Groundwater Remediation

☐Aquifer Storage and Recovery ☐Salinity Barrier

☐Aquifer Test ☐Stormwater Drainage

☐Experimental Technology ☐Subsidence Control

☐Geothermal (Closed Loop) ☐Tracer

☐Geothermal (Heating/Cooling Return) ☐Other (explain under #21 Remarks)

4. Date Well(s) Completed: 9/09/2015 TMW-1,3,4

5. Well Location:

_____ _____

Facility/Owner Name Facility ID# (if applicable)

N. Church Street & Graham Hopedale Rd., Burlington

Physical Address, City, and Zip

Alamance

County

Parcel Identification No. (PIN)

5b. Latitude and Longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

36.09553 **N** 79.40548 **W**

6. Is (are) the well(s): ☐**Permanent** **or** ☑**Temporary**

7. Is this a repair to an existing well: ☐**Yes** **or** ☑**No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 3

*For multiple injection or non-water supply wells **ONLY** with the **same construction**, you can submit one form.*

9. Total well depth below land surface: 25 **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: 13-18 **(ft.)**

If water level is above casing, use "+"

11. Borehole diameter: 2.5 **(in.)**

12. Well construction method: direct-push

(i.e. auger, rotary, cable, direct push, etc.)

13. FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) _____ **Method of test:** _____

13b. Disinfection type: _____ **Amount:** _____

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

16. INNER CASING OR TUBING (geothermal closed-loop)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0 ft.	14 ft.	1 in.	sch 40	PVC
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
14 ft.	25 ft.	1 in.	.010	sch40	PVC
ft.	ft.	in.			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
ft.	ft.		
0 ft.	12 ft.	bentonite	pour
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
12 ft.	24 ft.	#2 sand	pour
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0 ft.	24 ft.	Clayey Sand over Silty Sand
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

****Temporary wells****

22. Certification:

_____ 9/14/2015

Signature of Certified Well Contractor Date

By signing this form, I hereby certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C .0100 or 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:

You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary.

24. Submittal Instructions:

24a. For All Wells: Submit this form within 30 days of completion of well construction to the following:

Division of Water Quality, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

24b. For Injection Wells: In addition to sending the form to the address in 24a above, also submit a copy of this form within 30 days of completion of well construction to the following:

Division of Water Quality, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Geothermal Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

WELL CONSTRUCTION RECORD

This form can be used for single or multiple wells

For Internal Use ONLY:

1. Well Contractor Information:

Lawrence D. Opper

Well Contractor Name

NC3322-A

NC Well Contractor Certification Number

Regional Probing Services

Company Name

2. Well Construction Permit #: _____

List all applicable well construction permits (i.e. County, State, Variance, etc.)

3. Well Use (check well use):

Water Supply Well:

☐Agricultural ☐Municipal/Public

☐Geothermal (Heating/Cooling Supply) ☐Residential Water Supply (single)

☐Industrial/Commercial ☐Residential Water Supply (shared)

☐Irrigation

Non-Water Supply Well:

☑Monitoring ☐Recovery

Injection Well:

☐Aquifer Recharge ☐Groundwater Remediation

☐Aquifer Storage and Recovery ☐Salinity Barrier

☐Aquifer Test ☐Stormwater Drainage

☐Experimental Technology ☐Subsidence Control

☐Geothermal (Closed Loop) ☐Tracer

☐Geothermal (Heating/Cooling Return) ☐Other (explain under #21 Remarks)

4. Date Well(s) Completed: 9/09/2015 TMW-2

5. Well Location:

_____ _____

Facility/Owner Name Facility ID# (if applicable)

N. Church Street & Graham Hopedale Rd., Burlington

Physical Address, City, and Zip

Alamance

County

Parcel Identification No. (PIN)

5b. Latitude and Longitude in degrees/minutes/seconds or decimal degrees:
(if well field, one lat/long is sufficient)

36.09553 **N** 79.40548 **W**

6. Is (are) the well(s): ☐**Permanent** **or** ☑**Temporary**

7. Is this a repair to an existing well: ☐**Yes** **or** ☑**No**

If this is a repair, fill out known well construction information and explain the nature of the repair under #21 remarks section or on the back of this form.

8. Number of wells constructed: 1

*For multiple injection or non-water supply wells **ONLY** with the **same construction**, you can submit one form.*

9. Total well depth below land surface: 25 **(ft.)**

For multiple wells list all depths if different (example- 3@200' and 2@100')

10. Static water level below top of casing: 18 **(ft.)**

If water level is above casing, use "+"

11. Borehole diameter: 2.5 **(in.)**

12. Well construction method: direct-push

(i.e. auger, rotary, cable, direct push, etc.)

13. FOR WATER SUPPLY WELLS ONLY:

13a. Yield (gpm) _____ **Method of test:** _____

13b. Disinfection type: _____ **Amount:** _____

14. WATER ZONES

FROM	TO	DESCRIPTION
ft.	ft.	
ft.	ft.	

15. OUTER CASING (for multi-cased wells) OR LINER (if applicable)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
ft.	ft.	in.		

16. INNER CASING OR TUBING (geothermal closed-loop)

FROM	TO	DIAMETER	THICKNESS	MATERIAL
0 ft.	15 ft.	1 in.	sch 40	PVC
ft.	ft.	in.		

17. SCREEN

FROM	TO	DIAMETER	SLOT SIZE	THICKNESS	MATERIAL
15 ft.	25 ft.	1 in.	.010	sch40	PVC
ft.	ft.	in.			

18. GROUT

FROM	TO	MATERIAL	EMPLACEMENT METHOD & AMOUNT
ft.	ft.		
0 ft.	13 ft.	bentonite	pour
ft.	ft.		

19. SAND/GRAVEL PACK (if applicable)

FROM	TO	MATERIAL	EMPLACEMENT METHOD
13 ft.	25 ft.	#2 sand	pour
ft.	ft.		

20. DRILLING LOG (attach additional sheets if necessary)

FROM	TO	DESCRIPTION (color, hardness, soil/rock type, grain size, etc.)
0 ft.	25 ft.	Clayey Sand over Silty Sand
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	
ft.	ft.	

21. REMARKS

****Temporary wells****

22. Certification:

_____ 9/14/2015

Signature of Certified Well Contractor Date

By signing this form, I hereby certify that the well(s) was (were) constructed in accordance with 15A NCAC 02C .0100 or 15A NCAC 02C .0200 Well Construction Standards and that a copy of this record has been provided to the well owner.

23. Site diagram or additional well details:

You may use the back of this page to provide additional well site details or well construction details. You may also attach additional pages if necessary.

24. Submittal Instructions:

24a. For All Wells: Submit this form within 30 days of completion of well construction to the following:

Division of Water Quality, Information Processing Unit,
1617 Mail Service Center, Raleigh, NC 27699-1617

24b. For Injection Wells: In addition to sending the form to the address in 24a above, also submit a copy of this form within 30 days of completion of well construction to the following:

Division of Water Quality, Underground Injection Control Program,
1636 Mail Service Center, Raleigh, NC 27699-1636

24c. For Water Supply & Geothermal Wells: In addition to sending the form to the address(es) above, also submit one copy of this form within 30 days of completion of well construction to the county health department of the county where constructed.

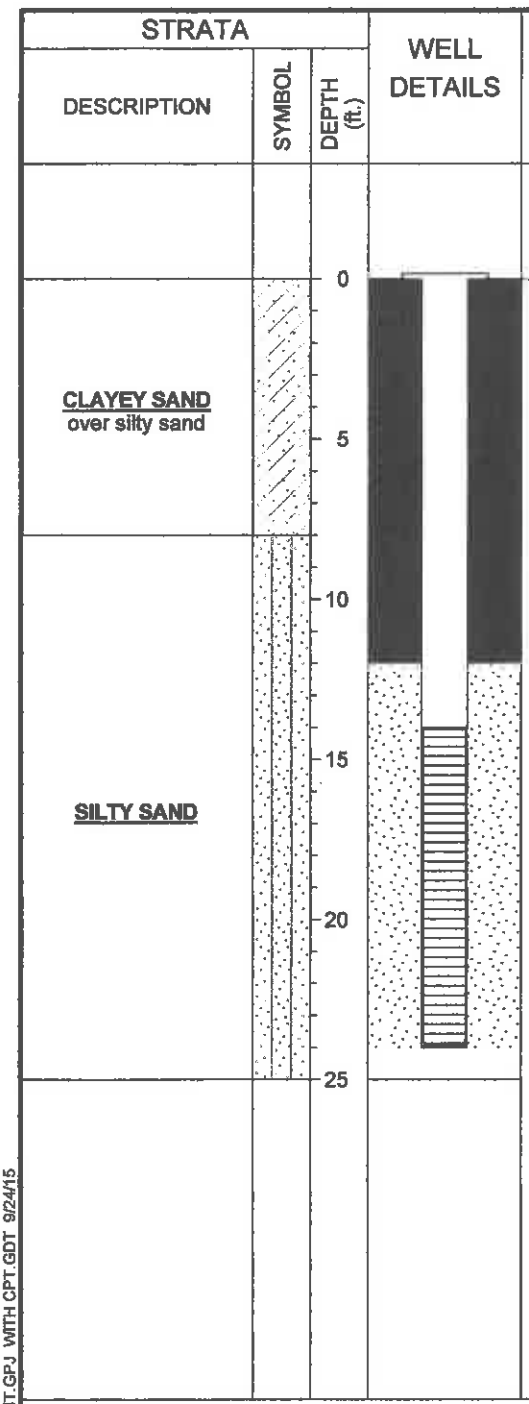
COMPLETION REPORT OF WELL No. TMW-1

PROJECT: **Burlington MGP Retail**
PROJECT NO: **4335-15-076**
PROJECT LOCATION: **Burlington, NC**

WATER LEVEL: **13' @ BTOC**

LATITUDE:
LONGITUDE:
TOP OF CASING ELEVATION:
DATUM:
LOGGED BY:

DRILLING CONTRACTOR:
DRILLING METHOD: **Direct Push**
DATE COMPLETED: **9/9/15**



WELL CONSTRUCTION DETAILS

PROTECTIVE CASING
Diameter:
Type:
Interval:

RISER CASING
Diameter: **1**
Type:
Interval: **0-14**

GROUT
Type: **Bentonite**
Interval: **0-12**

SEAL
Type:
Interval:

FILTERPACK
Type: **#2 Sand**
Interval: **12-24**

SCREEN
Diameter: **1"**
Type: **0.010 PVC**
Interval: **14-25**

LEGEND

- FILTER PACK
- BENTONITE
- CEMENT GROUT
- CUTTINGS / BACKFILL
- STATIC WATER LEVEL

TOC	TOP OF CASING
GS	GROUND SURFACE
BS	BENTONITE SEAL
BOC	BASE OF OUTER CASING
TSC	TOP OF SCREEN
BSC	BOTTOM OF SCREEN
TD	TOTAL DEPTH
CG	CEMENT GROUT

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COMPLETION REPORT OF WELL No. TMW-1

MONITORING WELL GINT.GPJ WITH CPT.GDT 9/24/15

COMPLETION REPORT OF WELL No. TMW-2

PROJECT: **Burlington MGP Retail**
PROJECT NO: **4335-15-076**
PROJECT LOCATION: **Burlington, NC**

WATER LEVEL: **18' @ BTOC**

LATITUDE:
LONGITUDE:
TOP OF CASING ELEVATION:
DATUM:
LOGGED BY:

DRILLING CONTRACTOR:
DRILLING METHOD: **Direct Push**
DATE COMPLETED: **9/9/15**

STRATA DESCRIPTION	SYMBOL	DEPTH (ft.)	WELL DETAILS	DEPTH (ft.)	LEGEND	ELEVATION (ft.)
		0		0.00	GS	95.03
CLAYEY SAND over silty sand		5				
		10		12.00		83.03
				14.00		81.03
SILTY SAND		15				
		20				
		25		24.00		71.03
				25.00		70.03

WELL CONSTRUCTION DETAILS

PROTECTIVE CASING
Diameter:
Type:
Interval:

RISER CASING
Diameter: **1**
Type:
Interval: **0-14**

GROUT
Type: **Bentonite**
Interval: **0-12**

SEAL
Type:
Interval:

FILTERPACK
Type: **#2 Sand**
Interval: **12-24**

SCREEN
Diameter: **1"**
Type: **0.010 PVC**
Interval: **14-25**

LEGEND

- FILTER PACK
- BENTONITE
- CEMENT GROUT
- CUTTINGS / BACKFILL
- STATIC WATER LEVEL

TOC	TOP OF CASING
GS	GROUND SURFACE
BS	BENTONITE SEAL
BOC	BASE OF OUTER CASING
TSC	TOP OF SCREEN
BSC	BOTTOM OF SCREEN
TD	TOTAL DEPTH
CG	CEMENT GROUT

MONITORING WELL GINT.GPJ WITH CPT.GDT 9/28/15

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COMPLETION REPORT OF WELL No. TMW-2

COMPLETION REPORT OF WELL No. TMW-3

PROJECT: **Burlington MGP Retail**
PROJECT NO: **4335-15-076**
PROJECT LOCATION: **Burlington, NC**

WATER LEVEL: **9' @ BTOC**

LATITUDE:
LONGITUDE:
TOP OF CASING ELEVATION:
DATUM:
LOGGED BY:

DRILLING CONTRACTOR:
DRILLING METHOD: **Direct Push**
DATE COMPLETED: **9/9/15**

STRATA DESCRIPTION	SYMBOL	DEPTH (ft.)	WELL DETAILS	DEPTH (ft.)	LEGEND	ELEVATION (ft.)
		0		0.00	GS	91.46
CLAYEY SAND over silty sand		5				
		10		12.00		79.46
				14.00		77.46
SILTY SAND		15				
		20				
				24.00		67.46
		25		25.00		66.46

WELL CONSTRUCTION DETAILS

PROTECTIVE CASING
Diameter:
Type:
Interval:

RISER CASING
Diameter: **1**
Type:
Interval: **0-14**

GROUT
Type: **Bentonite**
Interval: **0-12**

SEAL
Type:
Interval:

FILTERPACK
Type: **#2 Sand**
Interval: **12-24**

SCREEN
Diameter: **1"**
Type: **0.010 PVC**
Interval: **14-25**

LEGEND

- FILTER PACK
- BENTONITE
- CEMENT GROUT
- CUTTINGS / BACKFILL
- STATIC WATER LEVEL

TOC	TOP OF CASING
GS	GROUND SURFACE
BS	BENTONITE SEAL
BOC	BASE OF OUTER CASING
TSC	TOP OF SCREEN
BSC	BOTTOM OF SCREEN
TD	TOTAL DEPTH
CG	CEMENT GROUT

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COMPLETION REPORT OF WELL No. TMW-3

MONITORING WELL GINT.GPJ WITH CPT.GDT 9/24/15

COMPLETION REPORT OF WELL No. TMW-4

PROJECT: **Burlington MGP Retail**
PROJECT NO: **4335-15-076**
PROJECT LOCATION: **Burlington, NC**

WATER LEVEL: **17' @ BTOC**

LATITUDE:
LONGITUDE:
TOP OF CASING ELEVATION:
DATUM:
LOGGED BY:

DRILLING CONTRACTOR:
DRILLING METHOD: **Direct Push**
DATE COMPLETED: **9/9/15**

STRATA DESCRIPTION	SYMBOL	DEPTH (ft.)	WELL DETAILS	DEPTH (ft.)	LEGEND	ELEVATION (ft.)
		0		0.00	GS	98.52
CLAYEY SAND over silty sand		5				
		10		12.00		86.52
				14.00		84.52
SILTY SAND		15				
		20				
				24.00		74.52
		25		25.00		73.52

WELL CONSTRUCTION DETAILS

PROTECTIVE CASING
Diameter:
Type:
Interval:

RISER CASING
Diameter: **1**
Type:
Interval: **0-14**

GROUT
Type: **Bentonite**
Interval: **0-12**

SEAL
Type:
Interval:

FILTERPACK
Type: **#2 Sand**
Interval: **12-24**

SCREEN
Diameter: **1"**
Type: **0.010 PVC**
Interval: **14-25**

LEGEND

- FILTER PACK
- BENTONITE
- CEMENT GROUT
- CUTTINGS / BACKFILL
- STATIC WATER LEVEL

TOC	TOP OF CASING
GS	GROUND SURFACE
BS	BENTONITE SEAL
BOC	BASE OF OUTER CASING
TSC	TOP OF SCREEN
BSC	BOTTOM OF SCREEN
TD	TOTAL DEPTH
CG	CEMENT GROUT

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COMPLETION REPORT OF WELL No. TMW-4

MONITORING WELL GINT.GPJ WITH CPT.GDT 9/24/15

Appendix II – Laboratory Report and Chain-Of-Custody

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

September 15, 2015

Darren Cox
S&ME Greensboro
8646 W Market St
Greensboro, NC 27409

RE: Project: PROPOSED MGP RETAIL
Pace Project No.: 92267119

Dear Darren Cox:
Enclosed are the analytical results for sample(s) received by the laboratory on September 10, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Taylor Ezell
taylor.ezell@pacelabs.com
Project Manager

Enclosures

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: PROPOSED MGP RETAIL
Pace Project No.: 92267119

Charlotte Certification IDs
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
West Virginia Certification #: 357
Virginia/VELAP Certification #: 460221

Asheville Certification IDs
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
West Virginia Certification #: 356
Virginia/VELAP Certification #: 460222

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: PROPOSED MGP RETAIL
Pace Project No.: 92267119

Sample: SB-1 **Lab ID: 92267119001** Collected: 09/09/15 12:25 Received: 09/10/15 15:55 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Antimony	ND	mg/kg	0.50	1	09/11/15 20:00	09/14/15 16:46	7440-36-0	
Arsenic	ND	mg/kg	1.0	1	09/11/15 20:00	09/14/15 16:46	7440-38-2	
Beryllium	**0.12**	mg/kg	0.10	1	09/11/15 20:00	09/14/15 16:46	7440-41-7	
Cadmium	**0.12**	mg/kg	0.10	1	09/11/15 20:00	09/14/15 16:46	7440-43-9	
Chromium	**11.9**	mg/kg	0.50	1	09/11/15 20:00	09/14/15 16:46	7440-47-3	
Copper	**21.8**	mg/kg	0.50	1	09/11/15 20:00	09/14/15 16:46	7440-50-8	
Lead	**7.5**	mg/kg	0.50	1	09/11/15 20:00	09/14/15 16:46	7439-92-1	
Nickel	**3.4**	mg/kg	0.50	1	09/11/15 20:00	09/14/15 16:46	7440-02-0	
Selenium	**2.4**	mg/kg	1.0	1	09/11/15 20:00	09/14/15 16:46	7782-49-2	
Silver	ND	mg/kg	0.50	1	09/11/15 20:00	09/14/15 16:46	7440-22-4	
Thallium	ND	mg/kg	1.0	1	09/11/15 20:00	09/14/15 16:46	7440-28-0	
Zinc	**13.8**	mg/kg	1.0	1	09/11/15 20:00	09/14/15 16:46	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	**0.019**	mg/kg	0.0053	1	09/11/15 15:40	09/14/15 17:27	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**28.3**	%	0.10	1		09/14/15 06:54		
7196 Chromium, Hexavalent	Analytical Method: EPA 7196 Preparation Method: EPA 7196 Modified							
Chromium, Hexavalent	ND	mg/kg	6.7	1	09/14/15 17:00	09/14/15 17:00	18540-29-9	M1

Sample: SB-2 **Lab ID: 92267119002** Collected: 09/09/15 13:00 Received: 09/10/15 15:55 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Antimony	**0.95**	mg/kg	0.57	1	09/11/15 20:00	09/14/15 16:49	7440-36-0	
Arsenic	ND	mg/kg	1.1	1	09/11/15 20:00	09/14/15 16:49	7440-38-2	
Beryllium	**0.96**	mg/kg	0.11	1	09/11/15 20:00	09/14/15 16:49	7440-41-7	
Cadmium	**0.20**	mg/kg	0.11	1	09/11/15 20:00	09/14/15 16:49	7440-43-9	
Chromium	**10.3**	mg/kg	0.57	1	09/11/15 20:00	09/14/15 16:49	7440-47-3	
Copper	**31.9**	mg/kg	0.57	1	09/11/15 20:00	09/14/15 16:49	7440-50-8	
Lead	**4.6**	mg/kg	0.57	1	09/11/15 20:00	09/14/15 16:49	7439-92-1	
Nickel	**8.4**	mg/kg	0.57	1	09/11/15 20:00	09/14/15 16:49	7440-02-0	
Selenium	**4.7**	mg/kg	1.1	1	09/11/15 20:00	09/14/15 16:49	7782-49-2	
Silver	ND	mg/kg	0.57	1	09/11/15 20:00	09/14/15 16:49	7440-22-4	
Thallium	ND	mg/kg	1.1	1	09/11/15 20:00	09/14/15 16:49	7440-28-0	
Zinc	**30.1**	mg/kg	1.1	1	09/11/15 20:00	09/14/15 16:49	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	**0.0081**	mg/kg	0.0068	1	09/11/15 15:40	09/14/15 17:30	7439-97-6	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: PROPOSED MGP RETAIL
Pace Project No.: 92267119

Sample: SB-2 **Lab ID: 92267119002** Collected: 09/09/15 13:00 Received: 09/10/15 15:55 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**34.0**	%	0.10	1		09/14/15 06:54		
7196 Chromium, Hexavalent	Analytical Method: EPA 7196 Preparation Method: EPA 7196 Modified							
Chromium, Hexavalent	ND	mg/kg	7.5	1	09/14/15 17:00	09/14/15 17:00	18540-29-9	

Sample: SB-3 **Lab ID: 92267119003** Collected: 09/09/15 12:15 Received: 09/10/15 15:55 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Antimony	ND	mg/kg	0.34	1	09/11/15 20:00	09/14/15 16:53	7440-36-0	
Arsenic	**0.72**	mg/kg	0.68	1	09/11/15 20:00	09/14/15 16:53	7440-38-2	
Beryllium	**0.24**	mg/kg	0.068	1	09/11/15 20:00	09/14/15 16:53	7440-41-7	
Cadmium	**0.075**	mg/kg	0.068	1	09/11/15 20:00	09/14/15 16:53	7440-43-9	
Chromium	**16.0**	mg/kg	0.34	1	09/11/15 20:00	09/14/15 16:53	7440-47-3	
Copper	**18.9**	mg/kg	0.34	1	09/11/15 20:00	09/14/15 16:53	7440-50-8	
Lead	**10.7**	mg/kg	0.34	1	09/11/15 20:00	09/14/15 16:53	7439-92-1	
Nickel	**2.2**	mg/kg	0.34	1	09/11/15 20:00	09/14/15 16:53	7440-02-0	
Selenium	**1.6**	mg/kg	0.68	1	09/11/15 20:00	09/14/15 16:53	7782-49-2	
Silver	ND	mg/kg	0.34	1	09/11/15 20:00	09/14/15 16:53	7440-22-4	
Thallium	ND	mg/kg	0.68	1	09/11/15 20:00	09/14/15 16:53	7440-28-0	
Zinc	**12.5**	mg/kg	0.68	1	09/11/15 20:00	09/14/15 16:53	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	**0.060**	mg/kg	0.0053	1	09/11/15 15:40	09/14/15 17:33	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**19.7**	%	0.10	1		09/14/15 06:55		
7196 Chromium, Hexavalent	Analytical Method: EPA 7196 Preparation Method: EPA 7196 Modified							
Chromium, Hexavalent	ND	mg/kg	5.9	1	09/14/15 17:00	09/14/15 17:00	18540-29-9	

Sample: BG-1 **Lab ID: 92267119004** Collected: 09/09/15 12:35 Received: 09/10/15 15:55 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Antimony	ND	mg/kg	0.57	1	09/11/15 20:00	09/14/15 16:56	7440-36-0	
Arsenic	ND	mg/kg	1.1	1	09/11/15 20:00	09/14/15 16:56	7440-38-2	
Beryllium	**0.30**	mg/kg	0.11	1	09/11/15 20:00	09/14/15 16:56	7440-41-7	
Cadmium	**0.14**	mg/kg	0.11	1	09/11/15 20:00	09/14/15 16:56	7440-43-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: PROPOSED MGP RETAIL
Pace Project No.: 92267119

Sample: BG-1 **Lab ID: 92267119004** Collected: 09/09/15 12:35 Received: 09/10/15 15:55 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Chromium	**9.3**	mg/kg	0.57	1	09/11/15 20:00	09/14/15 16:56	7440-47-3	
Copper	**10.6**	mg/kg	0.57	1	09/11/15 20:00	09/14/15 16:56	7440-50-8	
Lead	**5.4**	mg/kg	0.57	1	09/11/15 20:00	09/14/15 16:56	7439-92-1	
Nickel	**2.1**	mg/kg	0.57	1	09/11/15 20:00	09/14/15 16:56	7440-02-0	
Selenium	**2.9**	mg/kg	1.1	1	09/11/15 20:00	09/14/15 16:56	7782-49-2	
Silver	ND	mg/kg	0.57	1	09/11/15 20:00	09/14/15 16:56	7440-22-4	
Thallium	ND	mg/kg	1.1	1	09/11/15 20:00	09/14/15 16:56	7440-28-0	
Zinc	**5.7**	mg/kg	1.1	1	09/11/15 20:00	09/14/15 16:56	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	**0.014**	mg/kg	0.0059	1	09/11/15 15:40	09/14/15 17:35	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**20.4**	%	0.10	1		09/14/15 06:56		
7196 Chromium, Hexavalent	Analytical Method: EPA 7196 Preparation Method: EPA 7196 Modified							
Chromium, Hexavalent	ND	mg/kg	6.2	1	09/14/15 17:00	09/14/15 17:00	18540-29-9	

Sample: BG-2 **Lab ID: 92267119005** Collected: 09/09/15 12:45 Received: 09/10/15 15:55 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3050							
Antimony	**0.70**	mg/kg	0.45	1	09/11/15 20:00	09/14/15 16:59	7440-36-0	
Arsenic	**1.4**	mg/kg	0.90	1	09/11/15 20:00	09/14/15 16:59	7440-38-2	
Beryllium	**0.25**	mg/kg	0.090	1	09/11/15 20:00	09/14/15 16:59	7440-41-7	
Cadmium	**0.16**	mg/kg	0.090	1	09/11/15 20:00	09/14/15 16:59	7440-43-9	
Chromium	**13.9**	mg/kg	0.45	1	09/11/15 20:00	09/14/15 16:59	7440-47-3	
Copper	**61.4**	mg/kg	0.45	1	09/11/15 20:00	09/14/15 16:59	7440-50-8	
Lead	**6.2**	mg/kg	0.45	1	09/11/15 20:00	09/14/15 16:59	7439-92-1	
Nickel	**0.97**	mg/kg	0.45	1	09/11/15 20:00	09/14/15 16:59	7440-02-0	
Selenium	**4.0**	mg/kg	0.90	1	09/11/15 20:00	09/14/15 16:59	7782-49-2	
Silver	ND	mg/kg	0.45	1	09/11/15 20:00	09/14/15 16:59	7440-22-4	
Thallium	ND	mg/kg	0.90	1	09/11/15 20:00	09/14/15 16:59	7440-28-0	
Zinc	**6.0**	mg/kg	0.90	1	09/11/15 20:00	09/14/15 16:59	7440-66-6	
7471 Mercury	Analytical Method: EPA 7471 Preparation Method: EPA 7471							
Mercury	**0.060**	mg/kg	0.0059	1	09/11/15 15:40	09/14/15 17:38	7439-97-6	
Percent Moisture	Analytical Method: ASTM D2974-87							
Percent Moisture	**27.8**	%	0.10	1		09/14/15 06:56		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: PROPOSED MGP RETAIL
Pace Project No.: 92267119

Sample: BG-2 **Lab ID: 92267119005** Collected: 09/09/15 12:45 Received: 09/10/15 15:55 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
7196 Chromium, Hexavalent	Analytical Method: EPA 7196 Preparation Method: EPA 7196 Modified							
Chromium, Hexavalent	ND	mg/kg	6.9	1	09/14/15 17:00	09/14/15 17:00	18540-29-9	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: PROPOSED MGP RETAIL
Pace Project No.: 92267119

QC Batch: MERP/8306 Analysis Method: EPA 7471
QC Batch Method: EPA 7471 Analysis Description: 7471 Mercury
Associated Lab Samples: 92267119001, 92267119002, 92267119003, 92267119004, 92267119005

METHOD BLANK: 1553904 Matrix: Solid
Associated Lab Samples: 92267119001, 92267119002, 92267119003, 92267119004, 92267119005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.0062	09/14/15 16:56	

LABORATORY CONTROL SAMPLE: 1553905

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	.067	0.076	114	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1553906 1553907

Parameter	Units	92266399001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Mercury	mg/kg	0.013	.043	.048	0.061	0.066	112	112	75-125	7	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: PROPOSED MGP RETAIL
Pace Project No.: 92267119

QC Batch: MPRP/19477 Analysis Method: EPA 6010
QC Batch Method: EPA 3050 Analysis Description: 6010 MET
Associated Lab Samples: 92267119001, 92267119002, 92267119003, 92267119004, 92267119005

METHOD BLANK: 1554148 Matrix: Solid
Associated Lab Samples: 92267119001, 92267119002, 92267119003, 92267119004, 92267119005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	mg/kg	ND	0.50	09/14/15 16:00	
Arsenic	mg/kg	ND	1.0	09/14/15 16:00	
Beryllium	mg/kg	ND	0.10	09/14/15 16:00	
Cadmium	mg/kg	ND	0.10	09/14/15 16:00	
Chromium	mg/kg	ND	0.50	09/14/15 16:00	
Copper	mg/kg	ND	0.50	09/14/15 16:00	
Lead	mg/kg	ND	0.50	09/14/15 16:00	
Nickel	mg/kg	ND	0.50	09/14/15 16:00	
Selenium	mg/kg	ND	1.0	09/14/15 16:00	
Silver	mg/kg	ND	0.50	09/14/15 16:00	
Thallium	mg/kg	ND	1.0	09/14/15 16:00	
Zinc	mg/kg	ND	1.0	09/14/15 16:00	

LABORATORY CONTROL SAMPLE: 1554149

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/kg	50	50.7	101	80-120	
Arsenic	mg/kg	50	48.8	98	80-120	
Beryllium	mg/kg	50	47.8	96	80-120	
Cadmium	mg/kg	50	48.8	98	80-120	
Chromium	mg/kg	50	47.7	95	80-120	
Copper	mg/kg	50	49.3	99	80-120	
Lead	mg/kg	50	48.7	97	80-120	
Nickel	mg/kg	50	48.4	97	80-120	
Selenium	mg/kg	50	48.8	98	80-120	
Silver	mg/kg	25	24.4	98	80-120	
Thallium	mg/kg	50	48.2	96	80-120	
Zinc	mg/kg	50	48.1	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1554150 1554151

Parameter	Units	92267125010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Antimony	mg/kg	ND	48.3	50.1	34.1	37.5	71	75	75-125	9	M1
Arsenic	mg/kg	2.0	48.3	50.1	40.0	43.8	79	84	75-125	9	
Beryllium	mg/kg	0.36	48.3	50.1	45.4	49.1	93	97	75-125	8	
Cadmium	mg/kg	0.13	48.3	50.1	44.0	47.1	91	94	75-125	7	
Chromium	mg/kg	178	48.3	50.1	181	194	8	33	75-125	7	M1

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: PROPOSED MGP RETAIL
Pace Project No.: 92267119

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1554150 1554151

Parameter	Units	92267125010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Copper	mg/kg	17.3	48.3	50.1	71.2	74.9	112	115	75-125	5	
Lead	mg/kg	13.4	48.3	50.1	55.1	65.4	86	104	75-125	17	
Nickel	mg/kg	11.9	48.3	50.1	59.5	66.7	99	110	75-125	11	
Selenium	mg/kg	2.2	48.3	50.1	41.0	43.4	80	82	75-125	6	
Silver	mg/kg	ND	24.1	25	22.6	24.4	93	97	75-125	8	
Thallium	mg/kg	ND	48.3	50.1	40.3	43.2	83	86	75-125	7	
Zinc	mg/kg	16.8	48.3	50.1	65.7	72.7	101	112	75-125	10	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: PROPOSED MGP RETAIL
Pace Project No.: 92267119

QC Batch: PMST/8344 Analysis Method: ASTM D2974-87
QC Batch Method: ASTM D2974-87 Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 92267119001, 92267119002, 92267119003, 92267119004, 92267119005

SAMPLE DUPLICATE: 1554334

Parameter	Units	92267147001 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	40.1	42.8	6	

SAMPLE DUPLICATE: 1554335

Parameter	Units	92267162001 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	79.6	79.7	0	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: PROPOSED MGP RETAIL
Pace Project No.: 92267119

QC Batch: WETA/24470 Analysis Method: EPA 7196
QC Batch Method: EPA 7196 Modified Analysis Description: 7196 Chromium, Hexavalent
Associated Lab Samples: 92267119001, 92267119002, 92267119003, 92267119004, 92267119005

METHOD BLANK: 1555573 Matrix: Solid
Associated Lab Samples: 92267119001, 92267119002, 92267119003, 92267119004, 92267119005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium, Hexavalent	mg/kg	ND	5.0	09/14/15 17:00	

LABORATORY CONTROL SAMPLE: 1555574

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	mg/kg	25	25.5	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1555575 1555576

Parameter	Units	92267119001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Chromium, Hexavalent	mg/kg	ND	34.2	34.2	21.3	20.9	62	61	75-125	2	M1

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: PROPOSED MGP RETAIL
Pace Project No.: 92267119

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether, Styrene, and Vinyl chloride.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: PROPOSED MGP RETAIL
Pace Project No.: 92267119

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92267119001	**SB-1**	EPA 3050	MPRP/19477	EPA 6010	ICP/17514
92267119002	**SB-2**	EPA 3050	MPRP/19477	EPA 6010	ICP/17514
92267119003	**SB-3**	EPA 3050	MPRP/19477	EPA 6010	ICP/17514
92267119004	**BG-1**	EPA 3050	MPRP/19477	EPA 6010	ICP/17514
92267119005	**BG-2**	EPA 3050	MPRP/19477	EPA 6010	ICP/17514
92267119001	**SB-1**	EPA 7471	MERP/8306	EPA 7471	MERC/7979
92267119002	**SB-2**	EPA 7471	MERP/8306	EPA 7471	MERC/7979
92267119003	**SB-3**	EPA 7471	MERP/8306	EPA 7471	MERC/7979
92267119004	**BG-1**	EPA 7471	MERP/8306	EPA 7471	MERC/7979
92267119005	**BG-2**	EPA 7471	MERP/8306	EPA 7471	MERC/7979
92267119001	**SB-1**	ASTM D2974-87	PMST/8344		
92267119002	**SB-2**	ASTM D2974-87	PMST/8344		
92267119003	**SB-3**	ASTM D2974-87	PMST/8344		
92267119004	**BG-1**	ASTM D2974-87	PMST/8344		
92267119005	**BG-2**	ASTM D2974-87	PMST/8344		
92267119001	**SB-1**	EPA 7196 Modified	WETA/24470	EPA 7196	WETA/24471
92267119002	**SB-2**	EPA 7196 Modified	WETA/24470	EPA 7196	WETA/24471
92267119003	**SB-3**	EPA 7196 Modified	WETA/24470	EPA 7196	WETA/24471
92267119004	**BG-1**	EPA 7196 Modified	WETA/24470	EPA 7196	WETA/24471
92267119005	**BG-2**	EPA 7196 Modified	WETA/24470	EPA 7196	WETA/24471

Pace Analytical	Sample Condition Upon Receipt (SCUR)	Page 1 of 2*
	Document Number: F-CHR-CS-003-rev.16	Issuing Authority: Pace Huntersville Quality Office

Client Name: SKME

* Page 2 of 2 is for Internal Use Only

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other_____

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals intact: ☐ yes ☒ no

Optional
Proj. Due Date:
Proj. Name:

Packing Material: ☐ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other_____

Thermometer Used: IR Gun T1401 Type of Ice: Wet Blue None ☒ Samples on ice, cooling process has begun

Temp Correction Factor T1401 No Correction

Corrected Cooler Temp.: 3.2 °C Biological Tissue is Frozen: Yes No N/A

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 9/10/15

Comments:

Chain of Custody Present:	☒Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☒Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☒Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☒Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☒Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☒No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☒No ☐N/A	7.
Sufficient Volume:	☒Yes ☐No ☐N/A	8.
Correct Containers Used:	☒Yes ☐No ☐N/A	9.
-Pace Containers Used:	☒Yes ☐No ☐N/A	
Containers Intact:	☒Yes ☐No ☐N/A	10.
Filtered volume received for Dissolved tests	☐Yes ☐No ☒N/A	11.
Sample Labels match COC:	☒Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: SL		
All containers needing preservation have been checked.	☒Yes ☐No ☒N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☐Yes ☐No ☒N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☐Yes ☒No	
Samples checked for dechlorination:	☐Yes ☐No ☒N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☐No ☒N/A	15.
Trip Blank Present:	☐Yes ☐No ☒N/A	16.
Trip Blank Custody Seals Present	☐Yes ☐No ☒N/A	
Pace Trip Blank Lot # (if purchased):_____		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted:_____ Date/Time:_____

Comments/ Resolution:_____

SCURF Review: R Date: 9/10

SRF Review: TL Date: 9/11

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

WO#: 92267119

92267119

(if no label available)

Pace Analytical
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page : 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	S&ME Greensboro	Report To:	Darren Cox	Attention:	
Address:	8646 W. Market Street	Copy To:		Company Name:	
	Suite 105, Greensboro, NC 27409			Address:	
Email:	DCOX@SMEINC.COM	Purchase Order #:		Pace Quote:	
Phone:	Fax:	Project Name:	Proposed MGP Retail	Pace Project Manager:	taylor.ezell@pacelabs.com,
Requested Due Date:	5 DAY	Project #:		Pace Profile #:	7603 - 1

Regulatory Agency	
State / Location	NC

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	VOC by 8260	Metals	Trip BLANK	Metals & Hex Chrom	Residual Chlorine (Y/N)	92267119
1	SB-1	SL	C			9/9/15	1225		1	U													\		001
2	SB-2	SL	C			9/9/15	1300		1	U													\		002
3	SB-3	SL	C			9/9/15	1215		1	U													\		003
4	BG-1	SL	C			9/9/15	1235		1	U													\		004
5	BG-2	SL	C			9/9/15	1245		1	U													\		005
6																									
7																									
8																									
9																									
10																									
11																									
12																									

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	DARREN COX S&ME	9/10/15	800		9.10.15	1345				
		9.10.15	1885		9/10/15	1555	3.2	Y	N	Y

SAMPLER NAME AND SIGNATURE			TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	DARREN COX					
SIGNATURE of SAMPLER:		DATE Signed: 9/10/15				

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

September 28, 2015

Mr. Wayne Watterson
S&ME, Inc.
8646 West Market Street
Greensboro, NC 27409

RE: Project: MGP Refill
Pace Project No.: 92268455

Dear Mr. Watterson:
Enclosed are the analytical results for sample(s) received by the laboratory on September 19, 2015. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Analyses were performed at the Pace Analytical Services location indicated on the sample analyte page for analysis unless otherwise footnoted.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Taylor Ezell
taylor.ezell@pacelabs.com
Project Manager

Enclosures

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: MGP Refill
Pace Project No.: 92268455

Charlotte Certification IDs
9800 Kincey Ave. Ste 100, Huntersville, NC 28078
North Carolina Drinking Water Certification #: 37706
North Carolina Field Services Certification #: 5342
North Carolina Wastewater Certification #: 12
South Carolina Certification #: 99006001
Florida/NELAP Certification #: E87627
Kentucky UST Certification #: 84
West Virginia Certification #: 357
Virginia/VELAP Certification #: 460221

Asheville Certification IDs
2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712
North Carolina Wastewater Certification #: 40
South Carolina Certification #: 99030001
West Virginia Certification #: 356
Virginia/VELAP Certification #: 460222

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: MGP Refill
Pace Project No.: 92268455

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92268455001	**TW-1**	EPA 6010	JDA	12	PASI-A
		EPA 7470	HVK	1	PASI-A
		EPA 8260	NB	63	PASI-C
92268455002	**TW-2**	EPA 6010	JDA	12	PASI-A
		EPA 7470	HVK	1	PASI-A
		EPA 8260	NB	63	PASI-C
92268455003	**TW-3**	EPA 6010	JDA	12	PASI-A
		EPA 7470	HVK	1	PASI-A
		EPA 8260	NB	63	PASI-C
92268455004	**TW-4**	EPA 6010	JDA	12	PASI-A
		EPA 7470	HVK	1	PASI-A
		EPA 8260	NB	63	PASI-C
92268455005	**TRIP**	EPA 8260	NB	63	PASI-C

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: MGP Refill
Pace Project No.: 92268455

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92268455001	**TW-1**					
EPA 6010	Chromium	9.2	ug/L	5.0	09/24/15 15:21	
EPA 6010	Copper	10.9	ug/L	5.0	09/24/15 15:21	
EPA 6010	Nickel	6.3	ug/L	5.0	09/24/15 15:21	
EPA 6010	Selenium	<10.0	ug/L	10.0	09/24/15 15:21	
EPA 6010	Zinc	24.3	ug/L	10.0	09/24/15 15:21	
92268455002	**TW-2**					
EPA 6010	Copper	6.5	ug/L	5.0	09/24/15 15:24	
EPA 6010	Nickel	8.9	ug/L	5.0	09/24/15 15:24	
EPA 6010	Zinc	46.0	ug/L	10.0	09/24/15 15:24	
EPA 8260	Benzene	183	ug/L	1.0	09/23/15 03:40	
EPA 8260	2-Butanone (MEK)	<5.0	ug/L	5.0	09/23/15 03:40	
EPA 8260	1,2-Dichloroethane	4.8	ug/L	1.0	09/23/15 03:40	
EPA 8260	Ethylbenzene	2.4	ug/L	1.0	09/23/15 03:40	
EPA 8260	p-Isopropyltoluene	<1.0	ug/L	1.0	09/23/15 03:40	
EPA 8260	Naphthalene	7.1	ug/L	1.0	09/23/15 03:40	
EPA 8260	Toluene	1.2	ug/L	1.0	09/23/15 03:40	
EPA 8260	Xylene (Total)	4.8	ug/L	2.0	09/23/15 03:40	
EPA 8260	m&p-Xylene	3.7	ug/L	2.0	09/23/15 03:40	
EPA 8260	o-Xylene	1.1	ug/L	1.0	09/23/15 03:40	
92268455003	**TW-3**					
EPA 6010	Copper	<5.0	ug/L	5.0	09/24/15 15:27	
EPA 6010	Nickel	<5.0	ug/L	5.0	09/24/15 15:27	
92268455004	**TW-4**					
EPA 6010	Chromium	<5.0	ug/L	5.0	09/24/15 15:40	
EPA 6010	Copper	11.5	ug/L	5.0	09/24/15 15:40	
EPA 6010	Nickel	<5.0	ug/L	5.0	09/24/15 15:40	
EPA 6010	Zinc	<10.0	ug/L	10.0	09/24/15 15:40	
EPA 8260	Chloroform	<1.0	ug/L	1.0	09/23/15 01:07	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

PROJECT NARRATIVE

Project: MGP Refill
Pace Project No.: 92268455

Method: **EPA 6010**
Description: 6010 MET ICP
Client: S&ME - Greensboro
Date: September 28, 2015

General Information:
4 samples were analyzed for EPA 6010. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 3010 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Pace Analytical Services, Inc.
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PROJECT NARRATIVE

Project: MGP Refill
Pace Project No.: 92268455

Method: **EPA 7470**
Description: 7470 Mercury
Client: S&ME - Greensboro
Date: September 28, 2015

General Information:
4 samples were analyzed for EPA 7470. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Sample Preparation:
The samples were prepared in accordance with EPA 7470 with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

Pace Analytical Services, Inc.
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PROJECT NARRATIVE

Project: MGP Refill
Pace Project No.: 92268455

Method: **EPA 8260**
Description: 8260 MSV Low Level
Client: S&ME - Greensboro
Date: September 28, 2015

General Information:
5 samples were analyzed for EPA 8260. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:
The samples were analyzed within the method required hold times with any exceptions noted below.

Initial Calibrations (including MS Tune as applicable):
All criteria were within method requirements with any exceptions noted below.

Continuing Calibration:
All criteria were within method requirements with any exceptions noted below.

Internal Standards:
All internal standards were within QC limits with any exceptions noted below.

Surrogates:
All surrogates were within QC limits with any exceptions noted below.

Method Blank:
All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:
All laboratory control spike compounds were within QC limits with any exceptions noted below.

QC Batch: MSV/33474

L0: Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

- LCS (Lab ID: 1563162)
  - Hexachloro-1,3-butadiene

Matrix Spikes:
All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Duplicate Sample:
All duplicate sample results were within method acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

Pace Analytical Services, Inc.
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ANALYTICAL RESULTS

Project: MGP Refill
Pace Project No.: 92268455

Sample: TW-1 **Lab ID: 92268455001** Collected: 09/11/15 15:30 Received: 09/19/15 13:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	**<5.0**	ug/L	5.0	1	09/23/15 18:45	09/24/15 15:21	7440-36-0	
Arsenic	**<10.0**	ug/L	10.0	1	09/23/15 18:45	09/24/15 15:21	7440-38-2	
Beryllium	**<1.0**	ug/L	1.0	1	09/23/15 18:45	09/24/15 15:21	7440-41-7	
Cadmium	**<1.0**	ug/L	1.0	1	09/23/15 18:45	09/24/15 15:21	7440-43-9	
Chromium	**9.2**	ug/L	5.0	1	09/23/15 18:45	09/24/15 15:21	7440-47-3	
Copper	**10.9**	ug/L	5.0	1	09/23/15 18:45	09/24/15 15:21	7440-50-8	
Lead	**<5.0**	ug/L	5.0	1	09/23/15 18:45	09/24/15 15:21	7439-92-1	
Nickel	**6.3**	ug/L	5.0	1	09/23/15 18:45	09/24/15 15:21	7440-02-0	
Selenium	**<10.0**	ug/L	10.0	1	09/23/15 18:45	09/24/15 15:21	7782-49-2	
Silver	**<5.0**	ug/L	5.0	1	09/23/15 18:45	09/24/15 15:21	7440-22-4	
Thallium	**<10.0**	ug/L	10.0	1	09/23/15 18:45	09/24/15 15:21	7440-28-0	
Zinc	**24.3**	ug/L	10.0	1	09/23/15 18:45	09/24/15 15:21	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	**<0.20**	ug/L	0.20	1	09/23/15 12:30	09/26/15 17:00	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	**<25.0**	ug/L	25.0	1		09/23/15 03:23	67-64-1	
Benzene	**<1.0**	ug/L	1.0	1		09/23/15 03:23	71-43-2	
Bromobenzene	**<1.0**	ug/L	1.0	1		09/23/15 03:23	108-86-1	
Bromochloromethane	**<1.0**	ug/L	1.0	1		09/23/15 03:23	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		09/23/15 03:23	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		09/23/15 03:23	75-25-2	
Bromomethane	**<2.0**	ug/L	2.0	1		09/23/15 03:23	74-83-9	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		09/23/15 03:23	78-93-3	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		09/23/15 03:23	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		09/23/15 03:23	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		09/23/15 03:23	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		09/23/15 03:23	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		09/23/15 03:23	74-87-3	
2-Chlorotoluene	**<1.0**	ug/L	1.0	1		09/23/15 03:23	95-49-8	
4-Chlorotoluene	**<1.0**	ug/L	1.0	1		09/23/15 03:23	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.0**	ug/L	2.0	1		09/23/15 03:23	96-12-8	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		09/23/15 03:23	124-48-1	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		09/23/15 03:23	106-93-4	
Dibromomethane	**<1.0**	ug/L	1.0	1		09/23/15 03:23	74-95-3	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		09/23/15 03:23	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		09/23/15 03:23	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		09/23/15 03:23	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		09/23/15 03:23	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		09/23/15 03:23	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		09/23/15 03:23	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		09/23/15 03:23	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		09/23/15 03:23	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		09/23/15 03:23	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		09/23/15 03:23	78-87-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: MGP Refill
Pace Project No.: 92268455

Sample: TW-1 **Lab ID: 92268455001** Collected: 09/11/15 15:30 Received: 09/19/15 13:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
1,3-Dichloropropane	**<1.0**	ug/L	1.0	1		09/23/15 03:23	142-28-9	
2,2-Dichloropropane	**<1.0**	ug/L	1.0	1		09/23/15 03:23	594-20-7	
1,1-Dichloropropene	**<1.0**	ug/L	1.0	1		09/23/15 03:23	563-58-6	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		09/23/15 03:23	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		09/23/15 03:23	10061-02-6	
Diisopropyl ether	**<1.0**	ug/L	1.0	1		09/23/15 03:23	108-20-3	
Ethylbenzene	**<1.0**	ug/L	1.0	1		09/23/15 03:23	100-41-4	
Hexachloro-1,3-butadiene	**<1.0**	ug/L	1.0	1		09/23/15 03:23	87-68-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		09/23/15 03:23	591-78-6	
p-Isopropyltoluene	**<1.0**	ug/L	1.0	1		09/23/15 03:23	99-87-6	
Methylene Chloride	**<2.0**	ug/L	2.0	1		09/23/15 03:23	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		09/23/15 03:23	108-10-1	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		09/23/15 03:23	1634-04-4	
Naphthalene	**<1.0**	ug/L	1.0	1		09/23/15 03:23	91-20-3	
Styrene	**<1.0**	ug/L	1.0	1		09/23/15 03:23	100-42-5	
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		09/23/15 03:23	630-20-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		09/23/15 03:23	79-34-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		09/23/15 03:23	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		09/23/15 03:23	108-88-3	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		09/23/15 03:23	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		09/23/15 03:23	120-82-1	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		09/23/15 03:23	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		09/23/15 03:23	79-00-5	
Trichloroethene	**<1.0**	ug/L	1.0	1		09/23/15 03:23	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		09/23/15 03:23	75-69-4	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		09/23/15 03:23	96-18-4	
Vinyl acetate	**<2.0**	ug/L	2.0	1		09/23/15 03:23	108-05-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		09/23/15 03:23	75-01-4	
Xylene (Total)	**<2.0**	ug/L	2.0	1		09/23/15 03:23	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		09/23/15 03:23	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		09/23/15 03:23	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	103	%	70-130	1		09/23/15 03:23	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		09/23/15 03:23	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		09/23/15 03:23	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: MGP Refill
Pace Project No.: 92268455

Sample: TW-2 **Lab ID: 92268455002** Collected: 09/11/15 10:30 Received: 09/19/15 13:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	**<5.0**	ug/L	5.0	1	09/23/15 18:45	09/24/15 15:24	7440-36-0	
Arsenic	**<10.0**	ug/L	10.0	1	09/23/15 18:45	09/24/15 15:24	7440-38-2	
Beryllium	**<1.0**	ug/L	1.0	1	09/23/15 18:45	09/24/15 15:24	7440-41-7	
Cadmium	**<1.0**	ug/L	1.0	1	09/23/15 18:45	09/24/15 15:24	7440-43-9	
Chromium	**<5.0**	ug/L	5.0	1	09/23/15 18:45	09/24/15 15:24	7440-47-3	
Copper	**6.5**	ug/L	5.0	1	09/23/15 18:45	09/24/15 15:24	7440-50-8	
Lead	**<5.0**	ug/L	5.0	1	09/23/15 18:45	09/24/15 15:24	7439-92-1	
Nickel	**8.9**	ug/L	5.0	1	09/23/15 18:45	09/24/15 15:24	7440-02-0	
Selenium	**<10.0**	ug/L	10.0	1	09/23/15 18:45	09/24/15 15:24	7782-49-2	
Silver	**<5.0**	ug/L	5.0	1	09/23/15 18:45	09/24/15 15:24	7440-22-4	
Thallium	**<10.0**	ug/L	10.0	1	09/23/15 18:45	09/24/15 15:24	7440-28-0	
Zinc	**46.0**	ug/L	10.0	1	09/23/15 18:45	09/24/15 15:24	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	**<0.20**	ug/L	0.20	1	09/23/15 12:30	09/26/15 17:02	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	**<25.0**	ug/L	25.0	1		09/23/15 03:40	67-64-1	
Benzene	**183**	ug/L	1.0	1		09/23/15 03:40	71-43-2	
Bromobenzene	**<1.0**	ug/L	1.0	1		09/23/15 03:40	108-86-1	
Bromochloromethane	**<1.0**	ug/L	1.0	1		09/23/15 03:40	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		09/23/15 03:40	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		09/23/15 03:40	75-25-2	
Bromomethane	**<2.0**	ug/L	2.0	1		09/23/15 03:40	74-83-9	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		09/23/15 03:40	78-93-3	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		09/23/15 03:40	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		09/23/15 03:40	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		09/23/15 03:40	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		09/23/15 03:40	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		09/23/15 03:40	74-87-3	
2-Chlorotoluene	**<1.0**	ug/L	1.0	1		09/23/15 03:40	95-49-8	
4-Chlorotoluene	**<1.0**	ug/L	1.0	1		09/23/15 03:40	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.0**	ug/L	2.0	1		09/23/15 03:40	96-12-8	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		09/23/15 03:40	124-48-1	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		09/23/15 03:40	106-93-4	
Dibromomethane	**<1.0**	ug/L	1.0	1		09/23/15 03:40	74-95-3	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		09/23/15 03:40	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		09/23/15 03:40	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		09/23/15 03:40	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		09/23/15 03:40	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		09/23/15 03:40	75-34-3	
1,2-Dichloroethane	**4.8**	ug/L	1.0	1		09/23/15 03:40	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		09/23/15 03:40	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		09/23/15 03:40	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		09/23/15 03:40	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		09/23/15 03:40	78-87-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: MGP Refill
Pace Project No.: 92268455

Sample: TW-2 **Lab ID: 92268455002** Collected: 09/11/15 10:30 Received: 09/19/15 13:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
1,3-Dichloropropane	**<1.0**	ug/L	1.0	1		09/23/15 03:40	142-28-9	
2,2-Dichloropropane	**<1.0**	ug/L	1.0	1		09/23/15 03:40	594-20-7	
1,1-Dichloropropene	**<1.0**	ug/L	1.0	1		09/23/15 03:40	563-58-6	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		09/23/15 03:40	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		09/23/15 03:40	10061-02-6	
Diisopropyl ether	**<1.0**	ug/L	1.0	1		09/23/15 03:40	108-20-3	
Ethylbenzene	**2.4**	ug/L	1.0	1		09/23/15 03:40	100-41-4	
Hexachloro-1,3-butadiene	**<1.0**	ug/L	1.0	1		09/23/15 03:40	87-68-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		09/23/15 03:40	591-78-6	
p-Isopropyltoluene	**<1.0**	ug/L	1.0	1		09/23/15 03:40	99-87-6	
Methylene Chloride	**<2.0**	ug/L	2.0	1		09/23/15 03:40	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		09/23/15 03:40	108-10-1	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		09/23/15 03:40	1634-04-4	
Naphthalene	**7.1**	ug/L	1.0	1		09/23/15 03:40	91-20-3	
Styrene	**<1.0**	ug/L	1.0	1		09/23/15 03:40	100-42-5	
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		09/23/15 03:40	630-20-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		09/23/15 03:40	79-34-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		09/23/15 03:40	127-18-4	
Toluene	**1.2**	ug/L	1.0	1		09/23/15 03:40	108-88-3	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		09/23/15 03:40	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		09/23/15 03:40	120-82-1	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		09/23/15 03:40	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		09/23/15 03:40	79-00-5	
Trichloroethene	**<1.0**	ug/L	1.0	1		09/23/15 03:40	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		09/23/15 03:40	75-69-4	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		09/23/15 03:40	96-18-4	
Vinyl acetate	**<2.0**	ug/L	2.0	1		09/23/15 03:40	108-05-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		09/23/15 03:40	75-01-4	
Xylene (Total)	**4.8**	ug/L	2.0	1		09/23/15 03:40	1330-20-7	
m&p-Xylene	**3.7**	ug/L	2.0	1		09/23/15 03:40	179601-23-1	
o-Xylene	**1.1**	ug/L	1.0	1		09/23/15 03:40	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	101	%	70-130	1		09/23/15 03:40	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		09/23/15 03:40	17060-07-0	
Toluene-d8 (S)	100	%	70-130	1		09/23/15 03:40	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: MGP Refill
Pace Project No.: 92268455

Sample: TW-3 **Lab ID: 92268455003** Collected: 09/11/15 11:50 Received: 09/19/15 13:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	**<5.0**	ug/L	5.0	1	09/23/15 18:45	09/24/15 15:27	7440-36-0	
Arsenic	**<10.0**	ug/L	10.0	1	09/23/15 18:45	09/24/15 15:27	7440-38-2	
Beryllium	**<1.0**	ug/L	1.0	1	09/23/15 18:45	09/24/15 15:27	7440-41-7	
Cadmium	**<1.0**	ug/L	1.0	1	09/23/15 18:45	09/24/15 15:27	7440-43-9	
Chromium	**<5.0**	ug/L	5.0	1	09/23/15 18:45	09/24/15 15:27	7440-47-3	
Copper	**<5.0**	ug/L	5.0	1	09/23/15 18:45	09/24/15 15:27	7440-50-8	
Lead	**<5.0**	ug/L	5.0	1	09/23/15 18:45	09/24/15 15:27	7439-92-1	
Nickel	**<5.0**	ug/L	5.0	1	09/23/15 18:45	09/24/15 15:27	7440-02-0	
Selenium	**<10.0**	ug/L	10.0	1	09/23/15 18:45	09/24/15 15:27	7782-49-2	
Silver	**<5.0**	ug/L	5.0	1	09/23/15 18:45	09/24/15 15:27	7440-22-4	
Thallium	**<10.0**	ug/L	10.0	1	09/23/15 18:45	09/24/15 15:27	7440-28-0	
Zinc	**<10.0**	ug/L	10.0	1	09/23/15 18:45	09/24/15 15:27	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	**<0.20**	ug/L	0.20	1	09/23/15 12:30	09/26/15 17:04	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	**<25.0**	ug/L	25.0	1		09/23/15 00:33	67-64-1	
Benzene	**<1.0**	ug/L	1.0	1		09/23/15 00:33	71-43-2	
Bromobenzene	**<1.0**	ug/L	1.0	1		09/23/15 00:33	108-86-1	
Bromochloromethane	**<1.0**	ug/L	1.0	1		09/23/15 00:33	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		09/23/15 00:33	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		09/23/15 00:33	75-25-2	
Bromomethane	**<2.0**	ug/L	2.0	1		09/23/15 00:33	74-83-9	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		09/23/15 00:33	78-93-3	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		09/23/15 00:33	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		09/23/15 00:33	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		09/23/15 00:33	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		09/23/15 00:33	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		09/23/15 00:33	74-87-3	
2-Chlorotoluene	**<1.0**	ug/L	1.0	1		09/23/15 00:33	95-49-8	
4-Chlorotoluene	**<1.0**	ug/L	1.0	1		09/23/15 00:33	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.0**	ug/L	2.0	1		09/23/15 00:33	96-12-8	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		09/23/15 00:33	124-48-1	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		09/23/15 00:33	106-93-4	
Dibromomethane	**<1.0**	ug/L	1.0	1		09/23/15 00:33	74-95-3	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		09/23/15 00:33	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		09/23/15 00:33	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		09/23/15 00:33	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		09/23/15 00:33	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		09/23/15 00:33	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		09/23/15 00:33	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		09/23/15 00:33	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		09/23/15 00:33	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		09/23/15 00:33	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		09/23/15 00:33	78-87-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: MGP Refill
Pace Project No.: 92268455

Sample: TW-3 **Lab ID: 92268455003** Collected: 09/11/15 11:50 Received: 09/19/15 13:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
1,3-Dichloropropane	**<1.0**	ug/L	1.0	1		09/23/15 00:33	142-28-9	
2,2-Dichloropropane	**<1.0**	ug/L	1.0	1		09/23/15 00:33	594-20-7	
1,1-Dichloropropene	**<1.0**	ug/L	1.0	1		09/23/15 00:33	563-58-6	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		09/23/15 00:33	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		09/23/15 00:33	10061-02-6	
Diisopropyl ether	**<1.0**	ug/L	1.0	1		09/23/15 00:33	108-20-3	
Ethylbenzene	**<1.0**	ug/L	1.0	1		09/23/15 00:33	100-41-4	
Hexachloro-1,3-butadiene	**<1.0**	ug/L	1.0	1		09/23/15 00:33	87-68-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		09/23/15 00:33	591-78-6	
p-Isopropyltoluene	**<1.0**	ug/L	1.0	1		09/23/15 00:33	99-87-6	
Methylene Chloride	**<2.0**	ug/L	2.0	1		09/23/15 00:33	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		09/23/15 00:33	108-10-1	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		09/23/15 00:33	1634-04-4	
Naphthalene	**<1.0**	ug/L	1.0	1		09/23/15 00:33	91-20-3	
Styrene	**<1.0**	ug/L	1.0	1		09/23/15 00:33	100-42-5	
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		09/23/15 00:33	630-20-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		09/23/15 00:33	79-34-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		09/23/15 00:33	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		09/23/15 00:33	108-88-3	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		09/23/15 00:33	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		09/23/15 00:33	120-82-1	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		09/23/15 00:33	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		09/23/15 00:33	79-00-5	
Trichloroethene	**<1.0**	ug/L	1.0	1		09/23/15 00:33	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		09/23/15 00:33	75-69-4	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		09/23/15 00:33	96-18-4	
Vinyl acetate	**<2.0**	ug/L	2.0	1		09/23/15 00:33	108-05-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		09/23/15 00:33	75-01-4	
Xylene (Total)	**<2.0**	ug/L	2.0	1		09/23/15 00:33	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		09/23/15 00:33	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		09/23/15 00:33	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	103	%	70-130	1		09/23/15 00:33	460-00-4	
1,2-Dichloroethane-d4 (S)	99	%	70-130	1		09/23/15 00:33	17060-07-0	
Toluene-d8 (S)	100	%	70-130	1		09/23/15 00:33	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: MGP Refill
Pace Project No.: 92268455

Sample: TW-4 **Lab ID: 92268455004** Collected: 09/11/15 14:10 Received: 09/19/15 13:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP	Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	**<5.0**	ug/L	5.0	1	09/23/15 18:45	09/24/15 15:40	7440-36-0	
Arsenic	**<10.0**	ug/L	10.0	1	09/23/15 18:45	09/24/15 15:40	7440-38-2	
Beryllium	**<1.0**	ug/L	1.0	1	09/23/15 18:45	09/24/15 15:40	7440-41-7	
Cadmium	**<1.0**	ug/L	1.0	1	09/23/15 18:45	09/24/15 15:40	7440-43-9	
Chromium	**<5.0**	ug/L	5.0	1	09/23/15 18:45	09/24/15 15:40	7440-47-3	
Copper	**11.5**	ug/L	5.0	1	09/23/15 18:45	09/24/15 15:40	7440-50-8	
Lead	**<5.0**	ug/L	5.0	1	09/23/15 18:45	09/24/15 15:40	7439-92-1	
Nickel	**<5.0**	ug/L	5.0	1	09/23/15 18:45	09/24/15 15:40	7440-02-0	
Selenium	**<10.0**	ug/L	10.0	1	09/23/15 18:45	09/24/15 15:40	7782-49-2	
Silver	**<5.0**	ug/L	5.0	1	09/23/15 18:45	09/24/15 15:40	7440-22-4	
Thallium	**<10.0**	ug/L	10.0	1	09/23/15 18:45	09/24/15 15:40	7440-28-0	
Zinc	**<10.0**	ug/L	10.0	1	09/23/15 18:45	09/24/15 15:40	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470 Preparation Method: EPA 7470							
Mercury	**<0.20**	ug/L	0.20	1	09/23/15 12:30	09/26/15 17:07	7439-97-6	
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	**<25.0**	ug/L	25.0	1		09/23/15 01:07	67-64-1	
Benzene	**<1.0**	ug/L	1.0	1		09/23/15 01:07	71-43-2	
Bromobenzene	**<1.0**	ug/L	1.0	1		09/23/15 01:07	108-86-1	
Bromochloromethane	**<1.0**	ug/L	1.0	1		09/23/15 01:07	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		09/23/15 01:07	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		09/23/15 01:07	75-25-2	
Bromomethane	**<2.0**	ug/L	2.0	1		09/23/15 01:07	74-83-9	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		09/23/15 01:07	78-93-3	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		09/23/15 01:07	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		09/23/15 01:07	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		09/23/15 01:07	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		09/23/15 01:07	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		09/23/15 01:07	74-87-3	
2-Chlorotoluene	**<1.0**	ug/L	1.0	1		09/23/15 01:07	95-49-8	
4-Chlorotoluene	**<1.0**	ug/L	1.0	1		09/23/15 01:07	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.0**	ug/L	2.0	1		09/23/15 01:07	96-12-8	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		09/23/15 01:07	124-48-1	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		09/23/15 01:07	106-93-4	
Dibromomethane	**<1.0**	ug/L	1.0	1		09/23/15 01:07	74-95-3	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		09/23/15 01:07	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		09/23/15 01:07	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		09/23/15 01:07	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		09/23/15 01:07	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		09/23/15 01:07	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		09/23/15 01:07	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		09/23/15 01:07	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		09/23/15 01:07	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		09/23/15 01:07	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		09/23/15 01:07	78-87-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: MGP Refill
Pace Project No.: 92268455

Sample: TW-4 **Lab ID: 92268455004** Collected: 09/11/15 14:10 Received: 09/19/15 13:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
1,3-Dichloropropane	**<1.0**	ug/L	1.0	1		09/23/15 01:07	142-28-9	
2,2-Dichloropropane	**<1.0**	ug/L	1.0	1		09/23/15 01:07	594-20-7	
1,1-Dichloropropene	**<1.0**	ug/L	1.0	1		09/23/15 01:07	563-58-6	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		09/23/15 01:07	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		09/23/15 01:07	10061-02-6	
Diisopropyl ether	**<1.0**	ug/L	1.0	1		09/23/15 01:07	108-20-3	
Ethylbenzene	**<1.0**	ug/L	1.0	1		09/23/15 01:07	100-41-4	
Hexachloro-1,3-butadiene	**<1.0**	ug/L	1.0	1		09/23/15 01:07	87-68-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		09/23/15 01:07	591-78-6	
p-Isopropyltoluene	**<1.0**	ug/L	1.0	1		09/23/15 01:07	99-87-6	
Methylene Chloride	**<2.0**	ug/L	2.0	1		09/23/15 01:07	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		09/23/15 01:07	108-10-1	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		09/23/15 01:07	1634-04-4	
Naphthalene	**<1.0**	ug/L	1.0	1		09/23/15 01:07	91-20-3	
Styrene	**<1.0**	ug/L	1.0	1		09/23/15 01:07	100-42-5	
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		09/23/15 01:07	630-20-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		09/23/15 01:07	79-34-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		09/23/15 01:07	127-18-4	
Toluene	**<1.0**	ug/L	1.0	1		09/23/15 01:07	108-88-3	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		09/23/15 01:07	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		09/23/15 01:07	120-82-1	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		09/23/15 01:07	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		09/23/15 01:07	79-00-5	
Trichloroethene	**<1.0**	ug/L	1.0	1		09/23/15 01:07	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		09/23/15 01:07	75-69-4	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		09/23/15 01:07	96-18-4	
Vinyl acetate	**<2.0**	ug/L	2.0	1		09/23/15 01:07	108-05-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		09/23/15 01:07	75-01-4	
Xylene (Total)	**<2.0**	ug/L	2.0	1		09/23/15 01:07	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		09/23/15 01:07	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		09/23/15 01:07	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	103	%	70-130	1		09/23/15 01:07	460-00-4	
1,2-Dichloroethane-d4 (S)	97	%	70-130	1		09/23/15 01:07	17060-07-0	
Toluene-d8 (S)	101	%	70-130	1		09/23/15 01:07	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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ANALYTICAL RESULTS

Project: MGP Refill
Pace Project No.: 92268455

Sample: TRIP **Lab ID: 92268455005** Collected: 09/11/15 00:00 Received: 09/19/15 13:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Acetone	**<25.0**	ug/L	25.0	1		09/22/15 16:04	67-64-1	
Benzene	**<1.0**	ug/L	1.0	1		09/22/15 16:04	71-43-2	
Bromobenzene	**<1.0**	ug/L	1.0	1		09/22/15 16:04	108-86-1	
Bromochloromethane	**<1.0**	ug/L	1.0	1		09/22/15 16:04	74-97-5	
Bromodichloromethane	**<1.0**	ug/L	1.0	1		09/22/15 16:04	75-27-4	
Bromoform	**<1.0**	ug/L	1.0	1		09/22/15 16:04	75-25-2	
Bromomethane	**<2.0**	ug/L	2.0	1		09/22/15 16:04	74-83-9	
2-Butanone (MEK)	**<5.0**	ug/L	5.0	1		09/22/15 16:04	78-93-3	
Carbon tetrachloride	**<1.0**	ug/L	1.0	1		09/22/15 16:04	56-23-5	
Chlorobenzene	**<1.0**	ug/L	1.0	1		09/22/15 16:04	108-90-7	
Chloroethane	**<1.0**	ug/L	1.0	1		09/22/15 16:04	75-00-3	
Chloroform	**<1.0**	ug/L	1.0	1		09/22/15 16:04	67-66-3	
Chloromethane	**<1.0**	ug/L	1.0	1		09/22/15 16:04	74-87-3	
2-Chlorotoluene	**<1.0**	ug/L	1.0	1		09/22/15 16:04	95-49-8	
4-Chlorotoluene	**<1.0**	ug/L	1.0	1		09/22/15 16:04	106-43-4	
1,2-Dibromo-3-chloropropane	**<2.0**	ug/L	2.0	1		09/22/15 16:04	96-12-8	
Dibromochloromethane	**<1.0**	ug/L	1.0	1		09/22/15 16:04	124-48-1	
1,2-Dibromoethane (EDB)	**<1.0**	ug/L	1.0	1		09/22/15 16:04	106-93-4	
Dibromomethane	**<1.0**	ug/L	1.0	1		09/22/15 16:04	74-95-3	
1,2-Dichlorobenzene	**<1.0**	ug/L	1.0	1		09/22/15 16:04	95-50-1	
1,3-Dichlorobenzene	**<1.0**	ug/L	1.0	1		09/22/15 16:04	541-73-1	
1,4-Dichlorobenzene	**<1.0**	ug/L	1.0	1		09/22/15 16:04	106-46-7	
Dichlorodifluoromethane	**<1.0**	ug/L	1.0	1		09/22/15 16:04	75-71-8	
1,1-Dichloroethane	**<1.0**	ug/L	1.0	1		09/22/15 16:04	75-34-3	
1,2-Dichloroethane	**<1.0**	ug/L	1.0	1		09/22/15 16:04	107-06-2	
1,1-Dichloroethene	**<1.0**	ug/L	1.0	1		09/22/15 16:04	75-35-4	
cis-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		09/22/15 16:04	156-59-2	
trans-1,2-Dichloroethene	**<1.0**	ug/L	1.0	1		09/22/15 16:04	156-60-5	
1,2-Dichloropropane	**<1.0**	ug/L	1.0	1		09/22/15 16:04	78-87-5	
1,3-Dichloropropane	**<1.0**	ug/L	1.0	1		09/22/15 16:04	142-28-9	
2,2-Dichloropropane	**<1.0**	ug/L	1.0	1		09/22/15 16:04	594-20-7	
1,1-Dichloropropene	**<1.0**	ug/L	1.0	1		09/22/15 16:04	563-58-6	
cis-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		09/22/15 16:04	10061-01-5	
trans-1,3-Dichloropropene	**<1.0**	ug/L	1.0	1		09/22/15 16:04	10061-02-6	
Diisopropyl ether	**<1.0**	ug/L	1.0	1		09/22/15 16:04	108-20-3	
Ethylbenzene	**<1.0**	ug/L	1.0	1		09/22/15 16:04	100-41-4	
Hexachloro-1,3-butadiene	**<1.0**	ug/L	1.0	1		09/22/15 16:04	87-68-3	
2-Hexanone	**<5.0**	ug/L	5.0	1		09/22/15 16:04	591-78-6	
p-Isopropyltoluene	**<1.0**	ug/L	1.0	1		09/22/15 16:04	99-87-6	
Methylene Chloride	**<2.0**	ug/L	2.0	1		09/22/15 16:04	75-09-2	
4-Methyl-2-pentanone (MIBK)	**<5.0**	ug/L	5.0	1		09/22/15 16:04	108-10-1	
Methyl-tert-butyl ether	**<1.0**	ug/L	1.0	1		09/22/15 16:04	1634-04-4	
Naphthalene	**<1.0**	ug/L	1.0	1		09/22/15 16:04	91-20-3	
Styrene	**<1.0**	ug/L	1.0	1		09/22/15 16:04	100-42-5	
1,1,1,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		09/22/15 16:04	630-20-6	
1,1,2,2-Tetrachloroethane	**<1.0**	ug/L	1.0	1		09/22/15 16:04	79-34-5	
Tetrachloroethene	**<1.0**	ug/L	1.0	1		09/22/15 16:04	127-18-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: MGP Refill
Pace Project No.: 92268455

Sample: TRIP **Lab ID: 92268455005** Collected: 09/11/15 00:00 Received: 09/19/15 13:50 Matrix: Water

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV Low Level	Analytical Method: EPA 8260							
Toluene	**<1.0**	ug/L	1.0	1		09/22/15 16:04	108-88-3	
1,2,3-Trichlorobenzene	**<1.0**	ug/L	1.0	1		09/22/15 16:04	87-61-6	
1,2,4-Trichlorobenzene	**<1.0**	ug/L	1.0	1		09/22/15 16:04	120-82-1	
1,1,1-Trichloroethane	**<1.0**	ug/L	1.0	1		09/22/15 16:04	71-55-6	
1,1,2-Trichloroethane	**<1.0**	ug/L	1.0	1		09/22/15 16:04	79-00-5	
Trichloroethene	**<1.0**	ug/L	1.0	1		09/22/15 16:04	79-01-6	
Trichlorofluoromethane	**<1.0**	ug/L	1.0	1		09/22/15 16:04	75-69-4	
1,2,3-Trichloropropane	**<1.0**	ug/L	1.0	1		09/22/15 16:04	96-18-4	
Vinyl acetate	**<2.0**	ug/L	2.0	1		09/22/15 16:04	108-05-4	
Vinyl chloride	**<1.0**	ug/L	1.0	1		09/22/15 16:04	75-01-4	
Xylene (Total)	**<2.0**	ug/L	2.0	1		09/22/15 16:04	1330-20-7	
m&p-Xylene	**<2.0**	ug/L	2.0	1		09/22/15 16:04	179601-23-1	
o-Xylene	**<1.0**	ug/L	1.0	1		09/22/15 16:04	95-47-6	
Surrogates								
4-Bromofluorobenzene (S)	99	%	70-130	1		09/22/15 16:04	460-00-4	
1,2-Dichloroethane-d4 (S)	100	%	70-130	1		09/22/15 16:04	17060-07-0	
Toluene-d8 (S)	99	%	70-130	1		09/22/15 16:04	2037-26-5	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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QUALITY CONTROL DATA

Project: MGP Refill
Pace Project No.: 92268455

QC Batch: MERP/8380 Analysis Method: EPA 7470
QC Batch Method: EPA 7470 Analysis Description: 7470 Mercury
Associated Lab Samples: 92268455001, 92268455002, 92268455003, 92268455004

METHOD BLANK: 1563510 Matrix: Water
Associated Lab Samples: 92268455001, 92268455002, 92268455003, 92268455004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	<0.20	0.20	09/26/15 16:36	

LABORATORY CONTROL SAMPLE: 1563511

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	ug/L	2.5	3.0	118	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1563512 1563513

Parameter	Units	92268103005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Mercury	ug/L	ND	2.5	2.5	2.6	2.6	103	101	75-125	1	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: MGP Refill
Pace Project No.: 92268455

QC Batch: MPRP/19588 Analysis Method: EPA 6010
QC Batch Method: EPA 3010 Analysis Description: 6010 MET
Associated Lab Samples: 92268455001, 92268455002, 92268455003, 92268455004

METHOD BLANK: 1564998 Matrix: Water
Associated Lab Samples: 92268455001, 92268455002, 92268455003, 92268455004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	<5.0	5.0	09/24/15 14:38	
Arsenic	ug/L	<10.0	10.0	09/24/15 14:38	
Beryllium	ug/L	<1.0	1.0	09/24/15 14:38	
Cadmium	ug/L	<1.0	1.0	09/24/15 14:38	
Chromium	ug/L	<5.0	5.0	09/24/15 14:38	
Copper	ug/L	<5.0	5.0	09/24/15 14:38	
Lead	ug/L	<5.0	5.0	09/24/15 14:38	
Nickel	ug/L	<5.0	5.0	09/24/15 14:38	
Selenium	ug/L	<10.0	10.0	09/24/15 14:38	
Silver	ug/L	<5.0	5.0	09/24/15 14:38	
Thallium	ug/L	<10.0	10.0	09/24/15 14:38	
Zinc	ug/L	<10.0	10.0	09/24/15 14:38	

LABORATORY CONTROL SAMPLE: 1564999

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	500	522	104	80-120	
Arsenic	ug/L	500	483	97	80-120	
Beryllium	ug/L	500	483	97	80-120	
Cadmium	ug/L	500	491	98	80-120	
Chromium	ug/L	500	468	94	80-120	
Copper	ug/L	500	512	102	80-120	
Lead	ug/L	500	483	97	80-120	
Nickel	ug/L	500	473	95	80-120	
Selenium	ug/L	500	487	97	80-120	
Silver	ug/L	250	245	98	80-120	
Thallium	ug/L	500	491	98	80-120	
Zinc	ug/L	500	456	91	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1565000 1565001

Parameter	Units	92268363021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Antimony	ug/L	ND	500	500	554	508	111	102	75-125	9	
Arsenic	ug/L	ND	500	500	509	472	102	94	75-125	8	
Beryllium	ug/L	ND	500	500	514	478	103	95	75-125	7	
Cadmium	ug/L	ND	500	500	521	482	104	96	75-125	8	
Chromium	ug/L	ND	500	500	496	465	99	93	75-125	6	

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QUALITY CONTROL DATA

Project: MGP Refill
Pace Project No.: 92268455

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1565000 1565001

Parameter	Units	92268363021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
Copper	ug/L	ND	500	500	540	498	108	99	75-125	8	
Lead	ug/L	ND	500	500	512	478	102	96	75-125	7	
Nickel	ug/L	ND	500	500	502	469	100	94	75-125	7	
Selenium	ug/L	ND	500	500	517	476	103	95	75-125	8	
Silver	ug/L	ND	250	250	259	240	104	96	75-125	8	
Thallium	ug/L	ND	500	500	520	483	104	97	75-125	7	
Zinc	ug/L	ND	500	500	485	457	97	91	75-125	6	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
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QUALITY CONTROL DATA

Project: MGP Refill
Pace Project No.: 92268455

QC Batch: MSV/33466
QC Batch Method: EPA 8260
Analysis Method: EPA 8260
Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92268455005

METHOD BLANK: 1562825
Matrix: Water
Associated Lab Samples: 92268455005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<1.0	1.0	09/22/15 14:56	
1,1,1-Trichloroethane	ug/L	<1.0	1.0	09/22/15 14:56	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	1.0	09/22/15 14:56	
1,1,2-Trichloroethane	ug/L	<1.0	1.0	09/22/15 14:56	
1,1-Dichloroethane	ug/L	<1.0	1.0	09/22/15 14:56	
1,1-Dichloroethene	ug/L	<1.0	1.0	09/22/15 14:56	
1,1-Dichloropropene	ug/L	<1.0	1.0	09/22/15 14:56	
1,2,3-Trichlorobenzene	ug/L	<1.0	1.0	09/22/15 14:56	
1,2,3-Trichloropropane	ug/L	<1.0	1.0	09/22/15 14:56	
1,2,4-Trichlorobenzene	ug/L	<1.0	1.0	09/22/15 14:56	
1,2-Dibromo-3-chloropropane	ug/L	<2.0	2.0	09/22/15 14:56	
1,2-Dibromoethane (EDB)	ug/L	<1.0	1.0	09/22/15 14:56	
1,2-Dichlorobenzene	ug/L	<1.0	1.0	09/22/15 14:56	
1,2-Dichloroethane	ug/L	<1.0	1.0	09/22/15 14:56	
1,2-Dichloropropane	ug/L	<1.0	1.0	09/22/15 14:56	
1,3-Dichlorobenzene	ug/L	<1.0	1.0	09/22/15 14:56	
1,3-Dichloropropane	ug/L	<1.0	1.0	09/22/15 14:56	
1,4-Dichlorobenzene	ug/L	<1.0	1.0	09/22/15 14:56	
2,2-Dichloropropane	ug/L	<1.0	1.0	09/22/15 14:56	
2-Butanone (MEK)	ug/L	<5.0	5.0	09/22/15 14:56	
2-Chlorotoluene	ug/L	<1.0	1.0	09/22/15 14:56	
2-Hexanone	ug/L	<5.0	5.0	09/22/15 14:56	
4-Chlorotoluene	ug/L	<1.0	1.0	09/22/15 14:56	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	5.0	09/22/15 14:56	
Acetone	ug/L	<25.0	25.0	09/22/15 14:56	
Benzene	ug/L	<1.0	1.0	09/22/15 14:56	
Bromobenzene	ug/L	<1.0	1.0	09/22/15 14:56	
Bromochloromethane	ug/L	<1.0	1.0	09/22/15 14:56	
Bromodichloromethane	ug/L	<1.0	1.0	09/22/15 14:56	
Bromoform	ug/L	<1.0	1.0	09/22/15 14:56	
Bromomethane	ug/L	<2.0	2.0	09/22/15 14:56	
Carbon tetrachloride	ug/L	<1.0	1.0	09/22/15 14:56	
Chlorobenzene	ug/L	<1.0	1.0	09/22/15 14:56	
Chloroethane	ug/L	<1.0	1.0	09/22/15 14:56	
Chloroform	ug/L	<1.0	1.0	09/22/15 14:56	
Chloromethane	ug/L	<1.0	1.0	09/22/15 14:56	
cis-1,2-Dichloroethene	ug/L	<1.0	1.0	09/22/15 14:56	
cis-1,3-Dichloropropene	ug/L	<1.0	1.0	09/22/15 14:56	
Dibromochloromethane	ug/L	<1.0	1.0	09/22/15 14:56	
Dibromomethane	ug/L	<1.0	1.0	09/22/15 14:56	
Dichlorodifluoromethane	ug/L	<1.0	1.0	09/22/15 14:56	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: MGP Refill
Pace Project No.: 92268455

METHOD BLANK: 1562825 Matrix: Water
Associated Lab Samples: 92268455005

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/L	<1.0	1.0	09/22/15 14:56	
Ethylbenzene	ug/L	<1.0	1.0	09/22/15 14:56	
Hexachloro-1,3-butadiene	ug/L	<1.0	1.0	09/22/15 14:56	
m&p-Xylene	ug/L	<2.0	2.0	09/22/15 14:56	
Methyl-tert-butyl ether	ug/L	<1.0	1.0	09/22/15 14:56	
Methylene Chloride	ug/L	<2.0	2.0	09/22/15 14:56	
Naphthalene	ug/L	<1.0	1.0	09/22/15 14:56	
o-Xylene	ug/L	<1.0	1.0	09/22/15 14:56	
p-Isopropyltoluene	ug/L	<1.0	1.0	09/22/15 14:56	
Styrene	ug/L	<1.0	1.0	09/22/15 14:56	
Tetrachloroethene	ug/L	<1.0	1.0	09/22/15 14:56	
Toluene	ug/L	<1.0	1.0	09/22/15 14:56	
trans-1,2-Dichloroethene	ug/L	<1.0	1.0	09/22/15 14:56	
trans-1,3-Dichloropropene	ug/L	<1.0	1.0	09/22/15 14:56	
Trichloroethene	ug/L	<1.0	1.0	09/22/15 14:56	
Trichlorofluoromethane	ug/L	<1.0	1.0	09/22/15 14:56	
Vinyl acetate	ug/L	<2.0	2.0	09/22/15 14:56	
Vinyl chloride	ug/L	<1.0	1.0	09/22/15 14:56	
Xylene (Total)	ug/L	<2.0	2.0	09/22/15 14:56	
1,2-Dichloroethane-d4 (S)	%	96	70-130	09/22/15 14:56	
4-Bromofluorobenzene (S)	%	100	70-130	09/22/15 14:56	
Toluene-d8 (S)	%	100	70-130	09/22/15 14:56	

LABORATORY CONTROL SAMPLE: 1562826

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	54.4	109	70-130	
1,1,1-Trichloroethane	ug/L	50	49.4	99	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	51.5	103	70-130	
1,1,2-Trichloroethane	ug/L	50	49.7	99	70-130	
1,1-Dichloroethane	ug/L	50	46.3	93	70-130	
1,1-Dichloroethene	ug/L	50	52.0	104	70-132	
1,1-Dichloropropene	ug/L	50	51.5	103	70-130	
1,2,3-Trichlorobenzene	ug/L	50	60.3	121	70-135	
1,2,3-Trichloropropane	ug/L	50	50.6	101	70-130	
1,2,4-Trichlorobenzene	ug/L	50	56.8	114	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	54.8	110	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	55.5	111	70-130	
1,2-Dichlorobenzene	ug/L	50	54.7	109	70-130	
1,2-Dichloroethane	ug/L	50	43.0	86	70-130	
1,2-Dichloropropane	ug/L	50	47.2	94	70-130	
1,3-Dichlorobenzene	ug/L	50	56.8	114	70-130	
1,3-Dichloropropane	ug/L	50	53.6	107	70-130	
1,4-Dichlorobenzene	ug/L	50	53.2	106	70-130	

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REPORT OF LABORATORY ANALYSIS

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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: MGP Refill
Pace Project No.: 92268455

LABORATORY CONTROL SAMPLE: 1562826

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,2-Dichloropropane	ug/L	50	51.0	102	58-145	
2-Butanone (MEK)	ug/L	100	95.2	95	70-145	
2-Chlorotoluene	ug/L	50	54.3	109	70-130	
2-Hexanone	ug/L	100	110	110	70-144	
4-Chlorotoluene	ug/L	50	55.2	110	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	95.6	96	70-140	
Acetone	ug/L	100	98.9	99	50-175	
Benzene	ug/L	50	51.8	104	70-130	
Bromobenzene	ug/L	50	55.1	110	70-130	
Bromochloromethane	ug/L	50	55.5	111	70-130	
Bromodichloromethane	ug/L	50	50.7	101	70-130	
Bromoform	ug/L	50	41.2	82	70-130	
Bromomethane	ug/L	50	43.4	87	54-130	
Carbon tetrachloride	ug/L	50	53.2	106	70-132	
Chlorobenzene	ug/L	50	52.1	104	70-130	
Chloroethane	ug/L	50	45.6	91	64-134	
Chloroform	ug/L	50	49.4	99	70-130	
Chloromethane	ug/L	50	38.1	76	64-130	
cis-1,2-Dichloroethene	ug/L	50	46.8	94	70-131	
cis-1,3-Dichloropropene	ug/L	50	52.9	106	70-130	
Dibromochloromethane	ug/L	50	48.5	97	70-130	
Dibromomethane	ug/L	50	51.4	103	70-131	
Dichlorodifluoromethane	ug/L	50	54.2	108	56-130	
Diisopropyl ether	ug/L	50	45.2	90	70-130	
Ethylbenzene	ug/L	50	51.4	103	70-130	
Hexachloro-1,3-butadiene	ug/L	50	60.0	120	70-130	
m&p-Xylene	ug/L	100	102	102	70-130	
Methyl-tert-butyl ether	ug/L	50	51.1	102	70-130	
Methylene Chloride	ug/L	50	42.0	84	63-130	
Naphthalene	ug/L	50	63.0	126	70-138	
o-Xylene	ug/L	50	50.9	102	70-130	
p-Isopropyltoluene	ug/L	50	54.9	110	70-130	
Styrene	ug/L	50	53.5	107	70-130	
Tetrachloroethene	ug/L	50	53.3	107	70-130	
Toluene	ug/L	50	49.7	99	70-130	
trans-1,2-Dichloroethene	ug/L	50	49.0	98	70-130	
trans-1,3-Dichloropropene	ug/L	50	47.3	95	70-132	
Trichloroethene	ug/L	50	48.3	97	70-130	
Trichlorofluoromethane	ug/L	50	46.5	93	62-133	
Vinyl acetate	ug/L	100	88.8	89	66-157	
Vinyl chloride	ug/L	50	50.0	100	50-150	
Xylene (Total)	ug/L	150	153	102	70-130	
1,2-Dichloroethane-d4 (S)	%			92	70-130	
4-Bromofluorobenzene (S)	%			102	70-130	
Toluene-d8 (S)	%			98	70-130	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: MGP Refill
Pace Project No.: 92268455

MATRIX SPIKE SAMPLE: 1562827

Parameter	Units	92268328005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	20	21.4	107	70-130	
1,1,1-Trichloroethane	ug/L	ND	20	21.1	106	70-130	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	19.7	99	70-130	
1,1,2-Trichloroethane	ug/L	ND	20	20.0	100	70-130	
1,1-Dichloroethane	ug/L	ND	20	19.9	99	70-130	
1,1-Dichloroethene	ug/L	ND	20	23.0	115	70-166	
1,1-Dichloropropene	ug/L	ND	20	21.8	109	70-130	
1,2,3-Trichlorobenzene	ug/L	ND	20	22.5	112	70-130	
1,2,3-Trichloropropane	ug/L	ND	20	19.9	99	70-130	
1,2,4-Trichlorobenzene	ug/L	ND	20	21.9	110	70-130	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	20.2	101	70-130	
1,2-Dibromoethane (EDB)	ug/L	ND	20	22.6	113	70-130	
1,2-Dichlorobenzene	ug/L	ND	20	22.1	111	70-130	
1,2-Dichloroethane	ug/L	ND	20	18.1	90	70-130	
1,2-Dichloropropane	ug/L	ND	20	19.8	99	70-130	
1,3-Dichlorobenzene	ug/L	ND	20	23.3	117	70-130	
1,3-Dichloropropane	ug/L	ND	20	20.6	103	70-130	
1,4-Dichlorobenzene	ug/L	ND	20	22.3	111	70-130	
2,2-Dichloropropane	ug/L	ND	20	21.0	105	70-130	
2-Butanone (MEK)	ug/L	ND	40	33.4	83	70-130	
2-Chlorotoluene	ug/L	ND	20	24.7	123	70-130	
2-Hexanone	ug/L	ND	40	37.4	93	70-130	
4-Chlorotoluene	ug/L	ND	20	23.4	117	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	40	35.1	88	70-130	
Acetone	ug/L	ND	40	35.5	89	70-130	
Benzene	ug/L	ND	20	22.4	112	70-148	
Bromobenzene	ug/L	ND	20	22.7	113	70-130	
Bromochloromethane	ug/L	ND	20	21.5	107	70-130	
Bromodichloromethane	ug/L	ND	20	20.6	103	70-130	
Bromoform	ug/L	ND	20	18.1	90	70-130	
Bromomethane	ug/L	ND	20	23.5	117	70-130	
Carbon tetrachloride	ug/L	ND	20	23.1	115	70-130	
Chlorobenzene	ug/L	ND	20	21.9	109	70-146	
Chloroethane	ug/L	ND	20	20.7	104	70-130	
Chloroform	ug/L	ND	20	20.7	103	70-130	
Chloromethane	ug/L	ND	20	14.2	71	70-130	
cis-1,2-Dichloroethene	ug/L	ND	20	20.1	101	70-130	
cis-1,3-Dichloropropene	ug/L	ND	20	20.4	102	70-130	
Dibromochloromethane	ug/L	ND	20	19.5	97	70-130	
Dibromomethane	ug/L	ND	20	21.2	106	70-130	
Dichlorodifluoromethane	ug/L	ND	20	22.7	114	70-130	
Diisopropyl ether	ug/L	ND	20	18.5	93	70-130	
Ethylbenzene	ug/L	ND	20	21.8	109	70-130	
Hexachloro-1,3-butadiene	ug/L	ND	20	24.9	125	70-130	
m&p-Xylene	ug/L	ND	40	43.2	108	70-130	
Methyl-tert-butyl ether	ug/L	ND	20	20.6	103	70-130	
Methylene Chloride	ug/L	ND	20	16.2	81	70-130	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: MGP Refill
Pace Project No.: 92268455

MATRIX SPIKE SAMPLE: 1562827

Parameter	Units	92268328005 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/L	ND	20	22.8	114	70-130	
o-Xylene	ug/L	ND	20	21.2	106	70-130	
p-Isopropyltoluene	ug/L	ND	20	22.9	114	70-130	
Styrene	ug/L	ND	20	21.4	107	70-130	
Tetrachloroethene	ug/L	1.5	20	24.2	114	70-130	
Toluene	ug/L	ND	20	21.1	105	70-155	
trans-1,2-Dichloroethene	ug/L	ND	20	21.3	107	70-130	
trans-1,3-Dichloropropene	ug/L	ND	20	19.3	96	70-130	
Trichloroethene	ug/L	ND	20	20.8	104	69-151	
Trichlorofluoromethane	ug/L	ND	20	21.5	107	70-130	
Vinyl acetate	ug/L	ND	40	34.1	85	70-130	
Vinyl chloride	ug/L	ND	20	22.1	110	70-130	
1,2-Dichloroethane-d4 (S)	%				93	70-130	
4-Bromofluorobenzene (S)	%				100	70-130	
Toluene-d8 (S)	%				98	70-130	

SAMPLE DUPLICATE: 1562828

Parameter	Units	92268328006 Result	Dup Result	RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	<1.0		
1,1,1-Trichloroethane	ug/L	ND	<1.0		
1,1,2,2-Tetrachloroethane	ug/L	ND	<1.0		
1,1,2-Trichloroethane	ug/L	ND	<1.0		
1,1-Dichloroethane	ug/L	ND	<1.0		
1,1-Dichloroethene	ug/L	ND	<1.0		
1,1-Dichloropropene	ug/L	ND	<1.0		
1,2,3-Trichlorobenzene	ug/L	ND	<1.0		
1,2,3-Trichloropropane	ug/L	ND	<1.0		
1,2,4-Trichlorobenzene	ug/L	ND	<1.0		
1,2-Dibromo-3-chloropropane	ug/L	ND	<2.0		
1,2-Dibromoethane (EDB)	ug/L	ND	<1.0		
1,2-Dichlorobenzene	ug/L	ND	<1.0		
1,2-Dichloroethane	ug/L	ND	<1.0		
1,2-Dichloropropane	ug/L	ND	<1.0		
1,3-Dichlorobenzene	ug/L	ND	<1.0		
1,3-Dichloropropane	ug/L	ND	<1.0		
1,4-Dichlorobenzene	ug/L	ND	<1.0		
2,2-Dichloropropane	ug/L	ND	<1.0		
2-Butanone (MEK)	ug/L	ND	<5.0		
2-Chlorotoluene	ug/L	ND	<1.0		
2-Hexanone	ug/L	ND	<5.0		
4-Chlorotoluene	ug/L	ND	<1.0		
4-Methyl-2-pentanone (MIBK)	ug/L	ND	<5.0		
Acetone	ug/L	ND	<25.0		
Benzene	ug/L	ND	<1.0		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: MGP Refill
Pace Project No.: 92268455

SAMPLE DUPLICATE: 1562828

Parameter	Units	92268328006 Result	Dup Result	RPD	Qualifiers
Bromobenzene	ug/L	ND	<1.0		
Bromochloromethane	ug/L	ND	<1.0		
Bromodichloromethane	ug/L	ND	<1.0		
Bromoform	ug/L	ND	<1.0		
Bromomethane	ug/L	ND	<2.0		
Carbon tetrachloride	ug/L	ND	<1.0		
Chlorobenzene	ug/L	ND	<1.0		
Chloroethane	ug/L	ND	<1.0		
Chloroform	ug/L	ND	<1.0		
Chloromethane	ug/L	ND	<1.0		
cis-1,2-Dichloroethene	ug/L	ND	<1.0		
cis-1,3-Dichloropropene	ug/L	ND	<1.0		
Dibromochloromethane	ug/L	ND	<1.0		
Dibromomethane	ug/L	ND	<1.0		
Dichlorodifluoromethane	ug/L	ND	<1.0		
Diisopropyl ether	ug/L	ND	<1.0		
Ethylbenzene	ug/L	ND	<1.0		
Hexachloro-1,3-butadiene	ug/L	ND	<1.0		
m&p-Xylene	ug/L	ND	<2.0		
Methyl-tert-butyl ether	ug/L	ND	<1.0		
Methylene Chloride	ug/L	ND	<2.0		
Naphthalene	ug/L	ND	<1.0		
o-Xylene	ug/L	ND	<1.0		
p-Isopropyltoluene	ug/L	ND	<1.0		
Styrene	ug/L	ND	<1.0		
Tetrachloroethene	ug/L	9.0	8.4	7	
Toluene	ug/L	ND	<1.0		
trans-1,2-Dichloroethene	ug/L	ND	<1.0		
trans-1,3-Dichloropropene	ug/L	ND	<1.0		
Trichloroethene	ug/L	ND	<1.0		
Trichlorofluoromethane	ug/L	ND	<1.0		
Vinyl acetate	ug/L	ND	<2.0		
Vinyl chloride	ug/L	ND	<1.0		
Xylene (Total)	ug/L	ND	<2.0		
1,2-Dichloroethane-d4 (S)	%	100	101	0	
4-Bromofluorobenzene (S)	%	101	100	1	
Toluene-d8 (S)	%	100	100	0	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: MGP Refill
Pace Project No.: 92268455

QC Batch: MSV/33474 Analysis Method: EPA 8260
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV Low Level
Associated Lab Samples: 92268455001, 92268455002, 92268455003, 92268455004

METHOD BLANK: 1563161 Matrix: Water
Associated Lab Samples: 92268455001, 92268455002, 92268455003, 92268455004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<1.0	1.0	09/22/15 23:42	
1,1,1-Trichloroethane	ug/L	<1.0	1.0	09/22/15 23:42	
1,1,2,2-Tetrachloroethane	ug/L	<1.0	1.0	09/22/15 23:42	
1,1,2-Trichloroethane	ug/L	<1.0	1.0	09/22/15 23:42	
1,1-Dichloroethane	ug/L	<1.0	1.0	09/22/15 23:42	
1,1-Dichloroethene	ug/L	<1.0	1.0	09/22/15 23:42	
1,1-Dichloropropene	ug/L	<1.0	1.0	09/22/15 23:42	
1,2,3-Trichlorobenzene	ug/L	<1.0	1.0	09/22/15 23:42	
1,2,3-Trichloropropane	ug/L	<1.0	1.0	09/22/15 23:42	
1,2,4-Trichlorobenzene	ug/L	<1.0	1.0	09/22/15 23:42	
1,2-Dibromo-3-chloropropane	ug/L	<2.0	2.0	09/22/15 23:42	
1,2-Dibromoethane (EDB)	ug/L	<1.0	1.0	09/22/15 23:42	
1,2-Dichlorobenzene	ug/L	<1.0	1.0	09/22/15 23:42	
1,2-Dichloroethane	ug/L	<1.0	1.0	09/22/15 23:42	
1,2-Dichloropropane	ug/L	<1.0	1.0	09/22/15 23:42	
1,3-Dichlorobenzene	ug/L	<1.0	1.0	09/22/15 23:42	
1,3-Dichloropropane	ug/L	<1.0	1.0	09/22/15 23:42	
1,4-Dichlorobenzene	ug/L	<1.0	1.0	09/22/15 23:42	
2,2-Dichloropropane	ug/L	<1.0	1.0	09/22/15 23:42	
2-Butanone (MEK)	ug/L	<5.0	5.0	09/22/15 23:42	
2-Chlorotoluene	ug/L	<1.0	1.0	09/22/15 23:42	
2-Hexanone	ug/L	<5.0	5.0	09/22/15 23:42	
4-Chlorotoluene	ug/L	<1.0	1.0	09/22/15 23:42	
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	5.0	09/22/15 23:42	
Acetone	ug/L	<25.0	25.0	09/22/15 23:42	
Benzene	ug/L	<1.0	1.0	09/22/15 23:42	
Bromobenzene	ug/L	<1.0	1.0	09/22/15 23:42	
Bromochloromethane	ug/L	<1.0	1.0	09/22/15 23:42	
Bromodichloromethane	ug/L	<1.0	1.0	09/22/15 23:42	
Bromoform	ug/L	<1.0	1.0	09/22/15 23:42	
Bromomethane	ug/L	<2.0	2.0	09/22/15 23:42	
Carbon tetrachloride	ug/L	<1.0	1.0	09/22/15 23:42	
Chlorobenzene	ug/L	<1.0	1.0	09/22/15 23:42	
Chloroethane	ug/L	<1.0	1.0	09/22/15 23:42	
Chloroform	ug/L	<1.0	1.0	09/22/15 23:42	
Chloromethane	ug/L	<1.0	1.0	09/22/15 23:42	
cis-1,2-Dichloroethene	ug/L	<1.0	1.0	09/22/15 23:42	
cis-1,3-Dichloropropene	ug/L	<1.0	1.0	09/22/15 23:42	
Dibromochloromethane	ug/L	<1.0	1.0	09/22/15 23:42	
Dibromomethane	ug/L	<1.0	1.0	09/22/15 23:42	
Dichlorodifluoromethane	ug/L	<1.0	1.0	09/22/15 23:42	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: MGP Refill
Pace Project No.: 92268455

METHOD BLANK: 1563161 Matrix: Water
Associated Lab Samples: 92268455001, 92268455002, 92268455003, 92268455004

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Diisopropyl ether	ug/L	<1.0	1.0	09/22/15 23:42	
Ethylbenzene	ug/L	<1.0	1.0	09/22/15 23:42	
Hexachloro-1,3-butadiene	ug/L	<1.0	1.0	09/22/15 23:42	
m&p-Xylene	ug/L	<2.0	2.0	09/22/15 23:42	
Methyl-tert-butyl ether	ug/L	<1.0	1.0	09/22/15 23:42	
Methylene Chloride	ug/L	<2.0	2.0	09/22/15 23:42	
Naphthalene	ug/L	<1.0	1.0	09/22/15 23:42	
o-Xylene	ug/L	<1.0	1.0	09/22/15 23:42	
p-Isopropyltoluene	ug/L	<1.0	1.0	09/22/15 23:42	
Styrene	ug/L	<1.0	1.0	09/22/15 23:42	
Tetrachloroethene	ug/L	<1.0	1.0	09/22/15 23:42	
Toluene	ug/L	<1.0	1.0	09/22/15 23:42	
trans-1,2-Dichloroethene	ug/L	<1.0	1.0	09/22/15 23:42	
trans-1,3-Dichloropropene	ug/L	<1.0	1.0	09/22/15 23:42	
Trichloroethene	ug/L	<1.0	1.0	09/22/15 23:42	
Trichlorofluoromethane	ug/L	<1.0	1.0	09/22/15 23:42	
Vinyl acetate	ug/L	<2.0	2.0	09/22/15 23:42	
Vinyl chloride	ug/L	<1.0	1.0	09/22/15 23:42	
Xylene (Total)	ug/L	<2.0	2.0	09/22/15 23:42	
1,2-Dichloroethane-d4 (S)	%	91	70-130	09/22/15 23:42	
4-Bromofluorobenzene (S)	%	104	70-130	09/22/15 23:42	
Toluene-d8 (S)	%	100	70-130	09/22/15 23:42	

LABORATORY CONTROL SAMPLE: 1563162

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	50	55.8	112	70-130	
1,1,1-Trichloroethane	ug/L	50	48.6	97	70-130	
1,1,2,2-Tetrachloroethane	ug/L	50	48.6	97	70-130	
1,1,2-Trichloroethane	ug/L	50	49.2	98	70-130	
1,1-Dichloroethane	ug/L	50	46.0	92	70-130	
1,1-Dichloroethene	ug/L	50	50.6	101	70-132	
1,1-Dichloropropene	ug/L	50	49.7	99	70-130	
1,2,3-Trichlorobenzene	ug/L	50	56.6	113	70-135	
1,2,3-Trichloropropane	ug/L	50	46.9	94	70-130	
1,2,4-Trichlorobenzene	ug/L	50	55.4	111	70-134	
1,2-Dibromo-3-chloropropane	ug/L	50	46.7	93	70-130	
1,2-Dibromoethane (EDB)	ug/L	50	56.1	112	70-130	
1,2-Dichlorobenzene	ug/L	50	55.4	111	70-130	
1,2-Dichloroethane	ug/L	50	43.2	86	70-130	
1,2-Dichloropropane	ug/L	50	48.1	96	70-130	
1,3-Dichlorobenzene	ug/L	50	56.2	112	70-130	
1,3-Dichloropropane	ug/L	50	52.7	105	70-130	
1,4-Dichlorobenzene	ug/L	50	53.6	107	70-130	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: MGP Refill
Pace Project No.: 92268455

LABORATORY CONTROL SAMPLE: 1563162

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
2,2-Dichloropropane	ug/L	50	45.6	91	58-145	
2-Butanone (MEK)	ug/L	100	77.6	78	70-145	
2-Chlorotoluene	ug/L	50	53.9	108	70-130	
2-Hexanone	ug/L	100	92.6	93	70-144	
4-Chlorotoluene	ug/L	50	55.4	111	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	100	86.0	86	70-140	
Acetone	ug/L	100	88.0	88	50-175	
Benzene	ug/L	50	51.6	103	70-130	
Bromobenzene	ug/L	50	55.5	111	70-130	
Bromochloromethane	ug/L	50	56.5	113	70-130	
Bromodichloromethane	ug/L	50	53.0	106	70-130	
Bromoform	ug/L	50	40.8	82	70-130	
Bromomethane	ug/L	50	44.7	89	54-130	
Carbon tetrachloride	ug/L	50	52.2	104	70-132	
Chlorobenzene	ug/L	50	53.7	107	70-130	
Chloroethane	ug/L	50	45.1	90	64-134	
Chloroform	ug/L	50	49.7	99	70-130	
Chloromethane	ug/L	50	34.0	68	64-130	
cis-1,2-Dichloroethene	ug/L	50	47.7	95	70-131	
cis-1,3-Dichloropropene	ug/L	50	52.5	105	70-130	
Dibromochloromethane	ug/L	50	48.4	97	70-130	
Dibromomethane	ug/L	50	51.9	104	70-131	
Dichlorodifluoromethane	ug/L	50	51.5	103	56-130	
Diisopropyl ether	ug/L	50	45.2	90	70-130	
Ethylbenzene	ug/L	50	51.8	104	70-130	
Hexachloro-1,3-butadiene	ug/L	50	55.3	111	70-130	L0
m&p-Xylene	ug/L	100	101	101	70-130	
Methyl-tert-butyl ether	ug/L	50	50.5	101	70-130	
Methylene Chloride	ug/L	50	44.3	89	63-130	
Naphthalene	ug/L	50	56.0	112	70-138	
o-Xylene	ug/L	50	51.4	103	70-130	
p-Isopropyltoluene	ug/L	50	52.9	106	70-130	
Styrene	ug/L	50	54.4	109	70-130	
Tetrachloroethene	ug/L	50	52.4	105	70-130	
Toluene	ug/L	50	50.0	100	70-130	
trans-1,2-Dichloroethene	ug/L	50	48.3	97	70-130	
trans-1,3-Dichloropropene	ug/L	50	47.1	94	70-132	
Trichloroethene	ug/L	50	47.9	96	70-130	
Trichlorofluoromethane	ug/L	50	45.5	91	62-133	
Vinyl acetate	ug/L	100	85.7	86	66-157	
Vinyl chloride	ug/L	50	48.3	97	50-150	
Xylene (Total)	ug/L	150	153	102	70-130	
1,2-Dichloroethane-d4 (S)	%			94	70-130	
4-Bromofluorobenzene (S)	%			101	70-130	
Toluene-d8 (S)	%			98	70-130	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: MGP Refill
Pace Project No.: 92268455

MATRIX SPIKE SAMPLE: 1563163

Parameter	Units	92268588001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	ND	20	21.7	108	70-130	
1,1,1-Trichloroethane	ug/L	ND	20	21.2	106	70-130	
1,1,2,2-Tetrachloroethane	ug/L	ND	20	20.4	102	70-130	
1,1,2-Trichloroethane	ug/L	ND	20	20.6	103	70-130	
1,1-Dichloroethane	ug/L	ND	20	19.8	99	70-130	
1,1-Dichloroethene	ug/L	ND	20	22.7	113	70-166	
1,1-Dichloropropene	ug/L	ND	20	22.7	113	70-130	
1,2,3-Trichlorobenzene	ug/L	ND	20	24.3	122	70-130	
1,2,3-Trichloropropane	ug/L	ND	20	20.6	103	70-130	
1,2,4-Trichlorobenzene	ug/L	ND	20	23.6	118	70-130	
1,2-Dibromo-3-chloropropane	ug/L	ND	20	21.2	106	70-130	
1,2-Dibromoethane (EDB)	ug/L	ND	20	22.5	113	70-130	
1,2-Dichlorobenzene	ug/L	ND	20	22.9	114	70-130	
1,2-Dichloroethane	ug/L	ND	20	18.1	90	70-130	
1,2-Dichloropropane	ug/L	ND	20	20.5	102	70-130	
1,3-Dichlorobenzene	ug/L	ND	20	24.4	122	70-130	
1,3-Dichloropropane	ug/L	ND	20	21.5	107	70-130	
1,4-Dichlorobenzene	ug/L	ND	20	23.2	116	70-130	
2,2-Dichloropropane	ug/L	ND	20	20.1	101	70-130	
2-Butanone (MEK)	ug/L	ND	40	37.2	93	70-130	
2-Chlorotoluene	ug/L	ND	20	22.8	114	70-130	
2-Hexanone	ug/L	ND	40	38.9	97	70-130	
4-Chlorotoluene	ug/L	ND	20	23.7	119	70-130	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	40	35.9	90	70-130	
Acetone	ug/L	ND	40	44.2	111	70-130	
Benzene	ug/L	ND	20	23.5	113	70-148	
Bromobenzene	ug/L	ND	20	23.4	117	70-130	
Bromochloromethane	ug/L	ND	20	22.6	113	70-130	
Bromodichloromethane	ug/L	ND	20	21.0	105	70-130	
Bromoform	ug/L	ND	20	19.1	96	70-130	
Bromomethane	ug/L	ND	20	24.4	122	70-130	
Carbon tetrachloride	ug/L	ND	20	22.6	113	70-130	
Chlorobenzene	ug/L	ND	20	22.8	114	70-146	
Chloroethane	ug/L	ND	20	21.0	105	70-130	
Chloroform	ug/L	ND	20	21.2	106	70-130	
Chloromethane	ug/L	ND	20	14.9	74	70-130	
cis-1,2-Dichloroethene	ug/L	ND	20	20.4	102	70-130	
cis-1,3-Dichloropropene	ug/L	ND	20	20.7	104	70-130	
Dibromochloromethane	ug/L	ND	20	19.8	99	70-130	
Dibromomethane	ug/L	ND	20	21.4	107	70-130	
Dichlorodifluoromethane	ug/L	ND	20	24.2	121	70-130	
Diisopropyl ether	ug/L	ND	20	18.7	93	70-130	
Ethylbenzene	ug/L	2.2	20	24.1	109	70-130	
Hexachloro-1,3-butadiene	ug/L	ND	20	27.8	139	70-130	
m&p-Xylene	ug/L	5.1	40	49.1	110	70-130	
Methyl-tert-butyl ether	ug/L	5.0	20	26.4	107	70-130	
Methylene Chloride	ug/L	ND	20	15.9	80	70-130	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: MGP Refill
Pace Project No.: 92268455

MATRIX SPIKE SAMPLE: 1563163

Parameter	Units	92268588001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Naphthalene	ug/L	3.0	20	28.6	128	70-130	
o-Xylene	ug/L	ND	20	21.8	108	70-130	
p-Isopropyltoluene	ug/L	ND	20	23.2	116	70-130	
Styrene	ug/L	ND	20	22.7	113	70-130	
Tetrachloroethene	ug/L	ND	20	22.4	112	70-130	
Toluene	ug/L	ND	20	22.7	111	70-155	
trans-1,2-Dichloroethene	ug/L	ND	20	21.6	108	70-130	
trans-1,3-Dichloropropene	ug/L	ND	20	19.8	99	70-130	
Trichloroethene	ug/L	ND	20	20.9	105	69-151	
Trichlorofluoromethane	ug/L	ND	20	21.3	106	70-130	
Vinyl acetate	ug/L	ND	40	34.0	85	70-130	
Vinyl chloride	ug/L	ND	20	22.4	112	70-130	
1,2-Dichloroethane-d4 (S)	%				91	70-130	
4-Bromofluorobenzene (S)	%				101	70-130	
Toluene-d8 (S)	%				99	70-130	

SAMPLE DUPLICATE: 1563164

Parameter	Units	92268455003 Result	Dup Result	RPD	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	<1.0	<1.0		
1,1,1-Trichloroethane	ug/L	<1.0	<1.0		
1,1,2,2-Tetrachloroethane	ug/L	<1.0	<1.0		
1,1,2-Trichloroethane	ug/L	<1.0	<1.0		
1,1-Dichloroethane	ug/L	<1.0	<1.0		
1,1-Dichloroethene	ug/L	<1.0	<1.0		
1,1-Dichloropropene	ug/L	<1.0	<1.0		
1,2,3-Trichlorobenzene	ug/L	<1.0	<1.0		
1,2,3-Trichloropropane	ug/L	<1.0	<1.0		
1,2,4-Trichlorobenzene	ug/L	<1.0	<1.0		
1,2-Dibromo-3-chloropropane	ug/L	<2.0	<2.0		
1,2-Dibromoethane (EDB)	ug/L	<1.0	<1.0		
1,2-Dichlorobenzene	ug/L	<1.0	<1.0		
1,2-Dichloroethane	ug/L	<1.0	<1.0		
1,2-Dichloropropane	ug/L	<1.0	<1.0		
1,3-Dichlorobenzene	ug/L	<1.0	<1.0		
1,3-Dichloropropane	ug/L	<1.0	<1.0		
1,4-Dichlorobenzene	ug/L	<1.0	<1.0		
2,2-Dichloropropane	ug/L	<1.0	<1.0		
2-Butanone (MEK)	ug/L	<5.0	<5.0		
2-Chlorotoluene	ug/L	<1.0	<1.0		
2-Hexanone	ug/L	<5.0	<5.0		
4-Chlorotoluene	ug/L	<1.0	<1.0		
4-Methyl-2-pentanone (MIBK)	ug/L	<5.0	<5.0		
Acetone	ug/L	<25.0	<25.0		
Benzene	ug/L	<1.0	<1.0		

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: MGP Refill
Pace Project No.: 92268455

SAMPLE DUPLICATE: 1563164

Parameter	Units	92268455003 Result	Dup Result	RPD	Qualifiers
Bromobenzene	ug/L	<1.0	<1.0		
Bromochloromethane	ug/L	<1.0	<1.0		
Bromodichloromethane	ug/L	<1.0	<1.0		
Bromoform	ug/L	<1.0	<1.0		
Bromomethane	ug/L	<2.0	<2.0		
Carbon tetrachloride	ug/L	<1.0	<1.0		
Chlorobenzene	ug/L	<1.0	<1.0		
Chloroethane	ug/L	<1.0	<1.0		
Chloroform	ug/L	<1.0	<1.0		
Chloromethane	ug/L	<1.0	<1.0		
cis-1,2-Dichloroethene	ug/L	<1.0	<1.0		
cis-1,3-Dichloropropene	ug/L	<1.0	<1.0		
Dibromochloromethane	ug/L	<1.0	<1.0		
Dibromomethane	ug/L	<1.0	<1.0		
Dichlorodifluoromethane	ug/L	<1.0	<1.0		
Diisopropyl ether	ug/L	<1.0	<1.0		
Ethylbenzene	ug/L	<1.0	<1.0		
Hexachloro-1,3-butadiene	ug/L	<1.0	<1.0		
m&p-Xylene	ug/L	<2.0	<2.0		
Methyl-tert-butyl ether	ug/L	<1.0	<1.0		
Methylene Chloride	ug/L	<2.0	<2.0		
Naphthalene	ug/L	<1.0	<1.0		
o-Xylene	ug/L	<1.0	<1.0		
p-Isopropyltoluene	ug/L	<1.0	<1.0		
Styrene	ug/L	<1.0	<1.0		
Tetrachloroethene	ug/L	<1.0	<1.0		
Toluene	ug/L	<1.0	<1.0		
trans-1,2-Dichloroethene	ug/L	<1.0	<1.0		
trans-1,3-Dichloropropene	ug/L	<1.0	<1.0		
Trichloroethene	ug/L	<1.0	<1.0		
Trichlorofluoromethane	ug/L	<1.0	<1.0		
Vinyl acetate	ug/L	<2.0	<2.0		
Vinyl chloride	ug/L	<1.0	<1.0		
Xylene (Total)	ug/L	<2.0	<2.0		
1,2-Dichloroethane-d4 (S)	%	99	98	1	
4-Bromofluorobenzene (S)	%	103	100	3	
Toluene-d8 (S)	%	100	100	0	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: MGP Refill
Pace Project No.: 92268455

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether, Styrene, and Vinyl chloride.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-A	Pace Analytical Services - Asheville
PASI-C	Pace Analytical Services - Charlotte

ANALYTE QUALIFIERS

L0	Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

Pace Analytical Services, Inc.
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: MGP Refill
Pace Project No.: 92268455

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92268455001	**TW-1**	EPA 3010	MPRP/19588	EPA 6010	ICP/17630
92268455002	**TW-2**	EPA 3010	MPRP/19588	EPA 6010	ICP/17630
92268455003	**TW-3**	EPA 3010	MPRP/19588	EPA 6010	ICP/17630
92268455004	**TW-4**	EPA 3010	MPRP/19588	EPA 6010	ICP/17630
92268455001	**TW-1**	EPA 7470	MERP/8380	EPA 7470	MERC/8054
92268455002	**TW-2**	EPA 7470	MERP/8380	EPA 7470	MERC/8054
92268455003	**TW-3**	EPA 7470	MERP/8380	EPA 7470	MERC/8054
92268455004	**TW-4**	EPA 7470	MERP/8380	EPA 7470	MERC/8054
92268455001	**TW-1**	EPA 8260	MSV/33474		
92268455002	**TW-2**	EPA 8260	MSV/33474		
92268455003	**TW-3**	EPA 8260	MSV/33474		
92268455004	**TW-4**	EPA 8260	MSV/33474		
92268455005	**TRIP**	EPA 8260	MSV/33466		

Pace Analytical	Sample Condition Upon Receipt (SCUR)	Page 1 of 2*
	Document Number: F-CHR-CS-003-rev.16	Issuing Authority: Pace Huntersville Quality Office

Client Name: S & ME

* Page 2 of 2 is for Internal Use Only

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ Pace Other_____

Custody Seal on Cooler/Box Present: ☐ yes ☐ no Seals intact: ☐ yes ☐ no

Optional
Proj. Due Date:
Proj. Name:

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other_____

Thermometer Used: IR Gun T1402 Type of Ice: Wet Blue None ☑ Samples on ice, cooling process has begun

Temp Correction Factor T1402 No Correction

Corrected Cooler Temp.: 2.4 °C Biological Tissue is Frozen: Yes No N/A

Date and Initials of person examining contents: TH 9/18/15

Temp should be above freezing to 6°C

		Comments:
Chain of Custody Present:	☑Yes ☐No ☐N/A	1.
Chain of Custody Filled Out:	☑Yes ☐No ☐N/A	2.
Chain of Custody Relinquished:	☑Yes ☐No ☐N/A	3.
Sampler Name & Signature on COC:	☑Yes ☐No ☐N/A	4.
Samples Arrived within Hold Time:	☑Yes ☐No ☐N/A	5.
Short Hold Time Analysis (<72hr):	☐Yes ☑No ☐N/A	6.
Rush Turn Around Time Requested:	☐Yes ☑No ☐N/A	7.
Sufficient Volume:	☑Yes ☐No ☐N/A	8.
Correct Containers Used:	☑Yes ☐No ☐N/A	9.
-Pace Containers Used:	☑Yes ☐No ☐N/A	
Containers Intact: TH 9/18	☑Yes ☐No ☐N/A	10. receives 1 vial Broken Line 2
Filtered volume received for Dissolved tests	☐Yes ☐No ☑N/A	11.
Sample Labels match COC:	☑Yes ☐No ☐N/A	12.
-Includes date/time/ID/Analysis Matrix: WT		
All containers needing preservation have been checked.	☑Yes ☐No ☐N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	☑Yes ☐No ☐N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	☑Yes ☐No	
Samples checked for dechlorination:	☐Yes ☐No ☑N/A	14.
Headspace in VOA Vials (>6mm):	☐Yes ☑No ☐N/A	15.
Trip Blank Present:	☑Yes ☐No ☐N/A	16. Yes
Trip Blank Custody Seals Present	☑Yes ☐No ☐N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

SCURF Review: _____ Date: _____

SRF Review: _____ Date: _____

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e out of hold, incorrect preservative, out of temp, incorrect containers)

WO# : 92268455

92268455

Pace Analytical®
www.pacelabs.com

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Page: of

1570163

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:
Company: S&ME, Inc.	Report To: Wayne Watterson	Attention:
Address: 8040 W. Market St. Suite 105 Greensboro NC 27409	Copy To:	Company Name:
		Address:
Email To:	Purchase Order No.:	Pace Quote Reference:
Phone: 288-7180 Fax:	Project Name: MGP Retail	Pace Project Manager:
Requested Due Date/TAT:	Project Number:	Pace Profile #: 1349-7

REGULATORY AGENCY

☐ NPDES ☐ GROUND WATER ☐ DRINKING WATER
☐ UST ☐ RCRA ☐ OTHER _____

Site Location STATE: _____

Requested Analysis Filtered (Y/N)

Section D Required Client Information

SAMPLE ID
(A-Z, 0-9 / ,-)
Sample IDs MUST BE UNIQUE

Matrix Codes — MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Tissue TS; Other OT

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED: COMPOSITE START DATE	COMPOSITE START TIME	COMPOSITE END/GRAB DATE	COMPOSITE END/GRAB TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H_2SO_4	HNO_3	HCl	NaOH	$Na_2S_2O_3$	Methanol	Other	Y/N: Analysis Test: BTEX	MEALS	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
1	TW-1		G			9/11/15	1530		4				✓					/	/		001
2	TW-2		G			9/11/15	1030		4				✓					/	/		002
3	TW-3		G			9/11/15	1150		4				✓					/	/		003
4	TW-4		G			9/11/15	1410		4				✓					/	/		004
5	TRIP																				005
6																					
7																					
8																					
9																					
10																					
11																					
12																					

92268455

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
		9/17/15	1350		9/18	1350				
		9/18/15	1650	Signed Pace HU	9/18/15	1650	2.9	Y	N	Y

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Gary Simmons

SIGNATURE of SAMPLER: _____ DATE Signed (MM/DD/YY): 9/17/15

Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)

ORIGINAL

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.